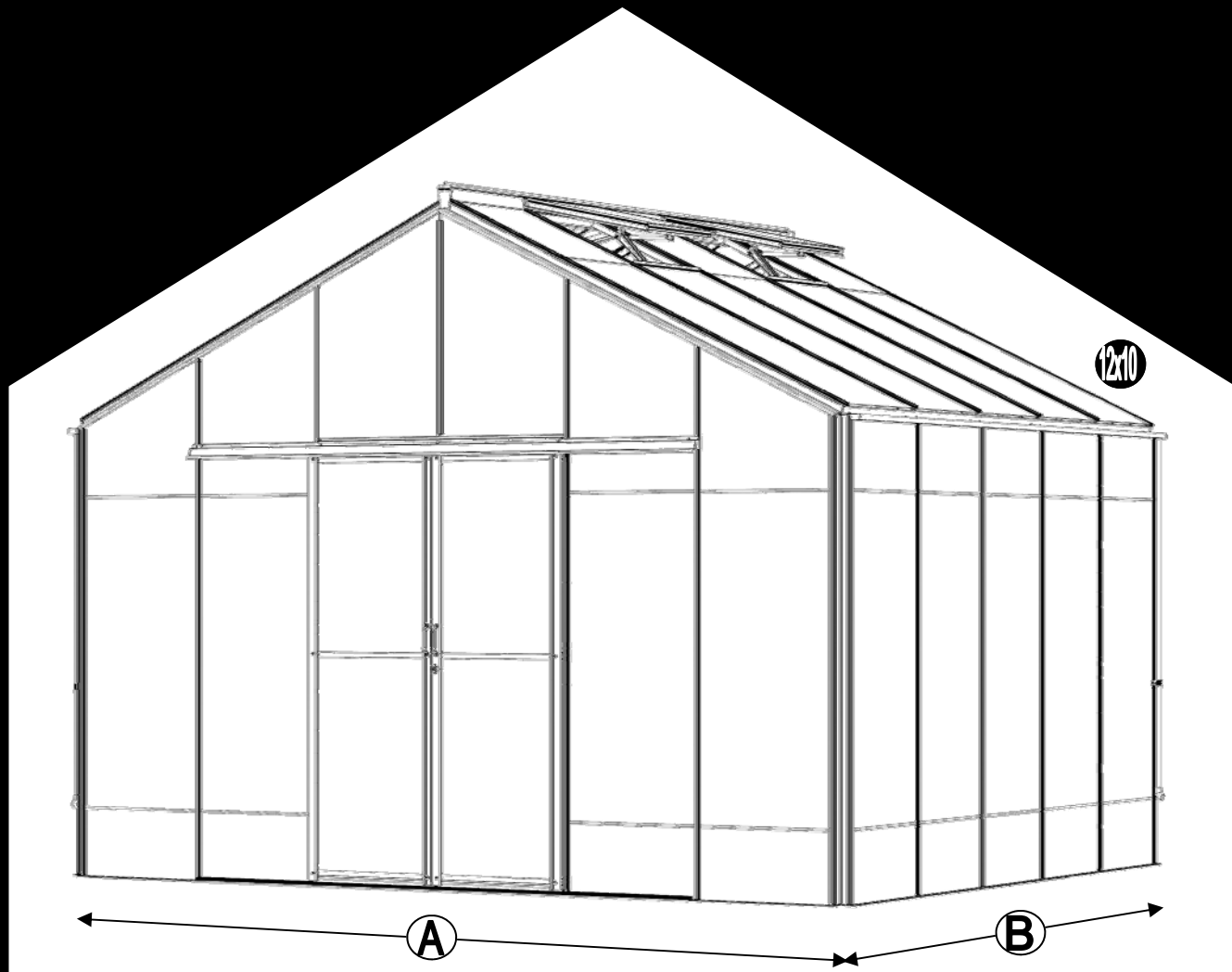


12^A



Reach Regal Assembly Instructions



NOMINAL SIZE	A (mm)	B (mm)
12 x 8	3876	2632
12 x 10		3252
12 x 12		3872

NOMINAL SIZE	A (mm)	B (mm)
6ft extension	-	1860



Thank you for purchasing your new Robinsons greenhouse. We recommend you familiarise yourself with the instructions and read all safety information before you commence assembly. This instruction manual is also available online at www.robinsonsgreenhouses.co.uk in our technical help section should you need to reprint it. Should you require any additional advice you can always call us on 01782 385409.

These instructions are divided into sections highlighted by a white number/letter on a black background at the bottom corner of most pages (see opposite page for details); **part lists**, **B**-base, **P**-preparation, **1**-sides, **2**-front gable, **3**-rear, **4**-joining the four sides together, **5**-roof, **6**-vent, **7**-door, **8**-glazing, **9**-vent attachment, **10**-door attachment, **11** anchoring down, **12** optional louvre, **13** optional shelf, **14** optional staging, **15** finishing touches, **Double doors in high side**. If you need to contact us for assistance please refer to the relevant section/s. If your building is longer than 12', i.e. has an extension then please also refer the separate extension manual.

Safety Warning

- Glass and aluminium can potentially cause injury. Please ensure you wear protective goggles, gloves, headgear and suitable footwear when assembling and glazing the building.
- Please remember that glass is fragile and should be handled with extreme care. Always clear up and dispose of any breakages immediately.
- Do not assemble the greenhouse in high winds.
- For safety reasons and ease of assembly, we recommend that this greenhouse is assembled by a minimum of two people.
- Please clear all lying snow from the greenhouse roof as it can cause the roof to buckle or collapse.

Site Preparation

- When selecting a site for your greenhouse, it is vital that you choose as flat and level an area as possible.
- A concrete or slabbed base will provide the most solid foundation for your greenhouse.
- **IMPORTANT:** Do **not** fix your building down until the building is fully assembled, including glazing.
- Avoid placing your greenhouse under trees or in other vulnerable locations.
- To minimise the risk of wind damage, try to select as sheltered a site as possible, e.g. beside a hedgerow or garden fence.

Additional Considerations

- Please bear in mind that assembling your greenhouse can be time consuming. You may need to spread the construction over two or more days. We recommend that you avoid leaving the building partially glazed. If you ever have to leave your greenhouse half assembled and not anchored down, weigh it down with slabs or bags of sand to stop the wind moving it.
- You will find it helpful to prepare a large, clean and clear area in which to work in. A garage floor or flat lawn area is ideal.
- If you have arranged for someone to install your greenhouse for you, please check that all components are included. The components can be identified by their distinctive profiles, lengths and quantities detailed in the parts list (see next page).
- Anchoring down your greenhouse should be the final stage of construction (including glazing).
- Once installed your greenhouse requires little maintenance, but to maintain the smooth running of your door(s) WD40 or similar can be applied to the door wheels and lower door guides.

Guarantee

- Your new Robinsons greenhouse is guaranteed for 10 years against faulty manufacture of the frame-work. This does not include glazing, moving parts, accidental damage or wind damage.

KEY SYMBOL	KEY DESCRIPTION
	EXTERNAL VIEW
	INTERNAL VIEW
	THINK
	THIS SECTION RELATES TO ANOTHER (e.g. 1 to 5)
	CORRECT
	DO NOT FIX DOWN!
	TWIST TO LOCK
	TIGHTEN
	PUSH AND HOLD
	CUT TO LENGTH

UPDATE: Robinsons plastic / aluminium cover strips -

On a Robinsons building the glazing capping is in two parts. The lower plastic capping screws into the glazing bars pressing the glass down onto its rubber beading. The upper plastic / aluminium covers then need to be applied to cover the heads of the self-tapping screws. If you are struggling to press on the cover strips then we recommend the use of a rubber mallet or perhaps a wooden block and hammer, a short sharp tap onto the cover at one end is all that is needed to stretch the cover around the lower capping protrusions locking it into place. You can then either continue to use the mallet along the length of the cover or continue just using the palm of your hand. Once in the building and the edges are protected Robinsons 4mm thick toughened safety glass is very strong and can cope with the vibrations caused by hitting the covers though we would not recommend that you hit the glass directly. Some of the aluminium cover caps have a hole in them at one end which is sometimes used to hang the parts for powder coating. You can if you wish use the hole to stop the covers from sliding in the roof using a glazing screw, note you will have to use a countersunk screw under the vents to avoid interference with the vent bottom.



SECTION No	TITLE	ASSEMBLY SYNOPSIS: IMPORTANT INFORMATION / CONSIDERATIONS
B P 1 2 3 4 5 6a 6b 7 8 9 10 11 12 13 14 15	PARTS LIST	Identify and separate all like for like components prior to assembly. The 'parts list' also separates parts into the various sections 1 - 12 shown below. Parts can also be identified by their profile pictures and stated lengths etc..
	BASE	Base dimensions and recommendations. Ensure that your base is level as this will make assembly of the building, especially the glazing of the roof much more straight forward.
	PREPARATION	Tools required. IMPORTANT: Use WD40 or similar in the glazing bar channels and insert the black glazing rubber prior to frame assembly.
	SIDES	Take the side glazing bars 'D051' with the rubber inserted and the diagonal braces 'D782', use 10mm bolts to join them to the gutter and 15mm bolts to the cills (note how the head of the bolt slides into each glazing bar during construction).
	FRONT	Again ensuring that the gable framework is rubbered-up follow the diagrams to assemble each end of the building. Make sure that you have inserted the extra bolts utilised in sections 4, 5 and 10. On the roof and side corner bars not every rubber channel will require rubber unless it is to be utilised in a partition (see separate manual and section P). On the rear of the greenhouse you can if you wish drop the long purling 'D034' purling to fall inline with the glazing separators later in construction (after section 8) utilising two crop headed bolts to attach the ends.
	REAR	
	JOINING THE FOUR SIDES	Take the two sides (1) and both gables (2 & 3) and join them together on your base. It is a good idea to tie some ladders to the sides to support them if you do not have anyone to hold them for you.
	ROOF	Attach the ridge and then the rubbered-up roof bars ensuring that they are fully butted up to the ridge and down onto the gutter. If you have <u>cresting</u> then it is a good idea to fit it before glazing, see section (15). Some tubular braces are supplied to add extra strength, they can be fitted now or later with crop head bolts.
	VENT	Once the vent is glazed add silicone to the vent sides and top. Stand the vent/s on their hinge (vent top) and then leave the silicone to set.
	VENT SLAM	The slam bar 'D079' can be moved up and down between the roof glazing bars so that it can be butted down onto the pane of glass beneath, the autovent will be attached to it later on (9).
	DOOR/S	Construct the door using the diagrams and then leave to one side ready for attachment in section (10).
	GLAZING	Layout the bar cappings and covers around the building like a sundial checking that all is present and correct. You can also place the roof cappings in the gutters so they are closer to hand. The glass in the sides has to bevel on the black separator strip which is on top of the 305mm high glass base panels. This bevelling action allows the glass to tuck underneath the gutter canopy. Use the capping and the self tapping screws to then hold the glass in place. The covers then enclose the screw heads giving a neat finish. A top tip is to not attach the door post capping (D814/D836) until you have fitted the door runner and threshold (10) to give you more room to manoeuvre. It is a good idea to glaze two roof sections first to ensure the building is square followed by two side sections to ensure the building isn't leaning. On occasion a hacksaw may be required to make minor adjustments to the length of the capping / covers.
	VENT ATTACHMENT	Take the assembled vent and slide the vent hinge 'D866' into the end of the ridge allowing the vent the pivot open and closed. Vent stops go either side of the vent to stop any lateral movement (so insert stop / vent / stop). Attachment of the Bayliss XL autovents.
	DOOR ATTACHMENT	Use the bolts inserted in section (2) to attach the upper door track. The lower door runner 'D861' and ramp threshold 'D088' push down and lock together.
	ANCHORING DOWN	Now that the greenhouse is finished and the door and vent/s are operating without interference then you need to anchor the building down using 2" rawl plugs and screws. Use a 7mm masonry bit in a hammer drill to create the holes.
OPTIONAL LOUVRE	They attach to the building during the glazing process (8) like a piece of glass with a black separator above and below them.	
OPTIONAL SHELVING	Robinsons integral cantilever staging and shelving attaches to the inside of the greenhouse frame using either square head bolts (insert four into each side glazing bar 'D051' during construction of the sides (1)) or rectangular 'crop head' bolts which can be fitted retrospectively (both sets of bolts accompany the shelving/staging). This system allows the height of either the staging or the shelf to be set at an operator specific height. Commonly the staging brackets are set 900mm from the cills though you can alter this to suit the end user/s. The aluminium shelf / staging slats come in two lengths; (4'):1240mm 'D2002' and (6'):1860mm 'D2003'. These slats can combine to create any length of staging required, i.e. 4'+6' = 10' etc...	
OPTIONAL STAGING		
FINISHING TOUCHES	Now that the main body of the structure is complete you can add; ridge caps, downpipe fittings, eave bungs. Images showing cresting and finial attachment, this is often easiest to do after section (5) rather than using the vent apertures later on (i.e. before glazing).	

REACH Regal 12

Section Ref	Part No.	Section	Size (mm)	12 8	12 10	12 12
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1	D037		2510	2		
	D050		3130		2	
	D040		3750			2
	D014		2517	2		
	D015		3137		2	
	D016		3757			2
	D782		2071		4	
	D051		1976	6	8	10
	RUBBER		1000 (1m)	24	32	40
	D174		N/A	4	8	8

2 + 3	D040		3750		2	
	D780		1976		4	
	D032		2568		4	
	D053		2272		4	
	D791		2864		1	
	D034		3750		1	
	D113		2510		2	
	D782		2071		4	

Section Ref	Part No.	Section	Size (mm)	12 8	12 10	12 12
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2 + 3	D035L		2082		2	
	D035R		2082		2	
	D111		N/A		2	
	RUBBER		1000 (1m)		71	
	D174		N/A		10	

5	D001		2517	1		
	D002		3137		1	
	D003		3757			1
	D033		2082	6	8	10
	RUBBER		1000 (1m)	25	34	42

6	D866		639	2	3	4
	D863L		613	2	3	4
	D863R		613	2	3	4
	D862		593	2	3	4
	D079 PLUS FLUFF		590	2	3	4
	D114		N/A	4	6	8
	D220 PLUS FS6060 SCREW		N/A	4	6	8
	D205		N/A	4	6	8

Section Ref	Part No.	Section	Size (mm)	12 8	12 10	12 12
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7	D090 + D347 lock = D301		1824	1		
	D092 + D156 strike = D303		1824	1		
	D093		1824	1		
	D094		1824	1		
	D096 + D217 wheel = D307		611	2		
	D095		611	2		
	D097		611	2		
	D232		905	4		
	D233		797	4		
	P053		N/A	2		
	D225		610	2		
	D840B		4000	1		

MAIN FRAME QUANTITIES VENTS / DOORS etc SEPERATE		10mm	38	44	50
		15mm	62	64	66
		m6	100	108	116

Section Ref	Part No.	Section	Size (mm)	12 8	12 10	12 12
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8	3	D792		2862	1		
	1	D816		1976	6	8	10
	2/3	D820		2272	4		
	5	D870		601	6	8	10
	3	D882		2568	2		
	2	D883		662	2		
	5	D887		1490	6	8	10
	2	D1019		965	1		
	1/2/3	D781		1976	8		
	2	D814		1883	2		
	5	D871		601	4		
	5	D888		1490	4		
10	3	D793		2862	1		
	1/2/3	D828		1978	14	16	18
	2/3	D830		2274	4		
	2	D836		1883	2		
	5	D880		2092	10	12	14
	3	D884		2570	2		
	2	D885		664	2		
	2	D1020		965	1		
	D808			971	1		
	D865			1210	1		
D861		2450	1				
D088		1207	1				
D086		2510	1				
D085		2510	1				
D153		198	2				
D163		90	2				
D150		N/A	1				
D154		N/A	2				

REACH Regal 12

THE DIMENSIONS BELOW ARE THE EXACT EXTERNAL BASE DIMENSIONS FOR THE ROBINSONS RANGE.

We cannot emphasize how important it is to have a proper base for your Robinsons Greenhouse to be erected upon.

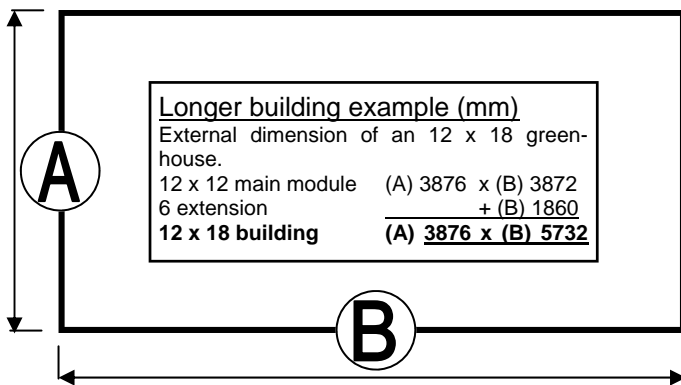
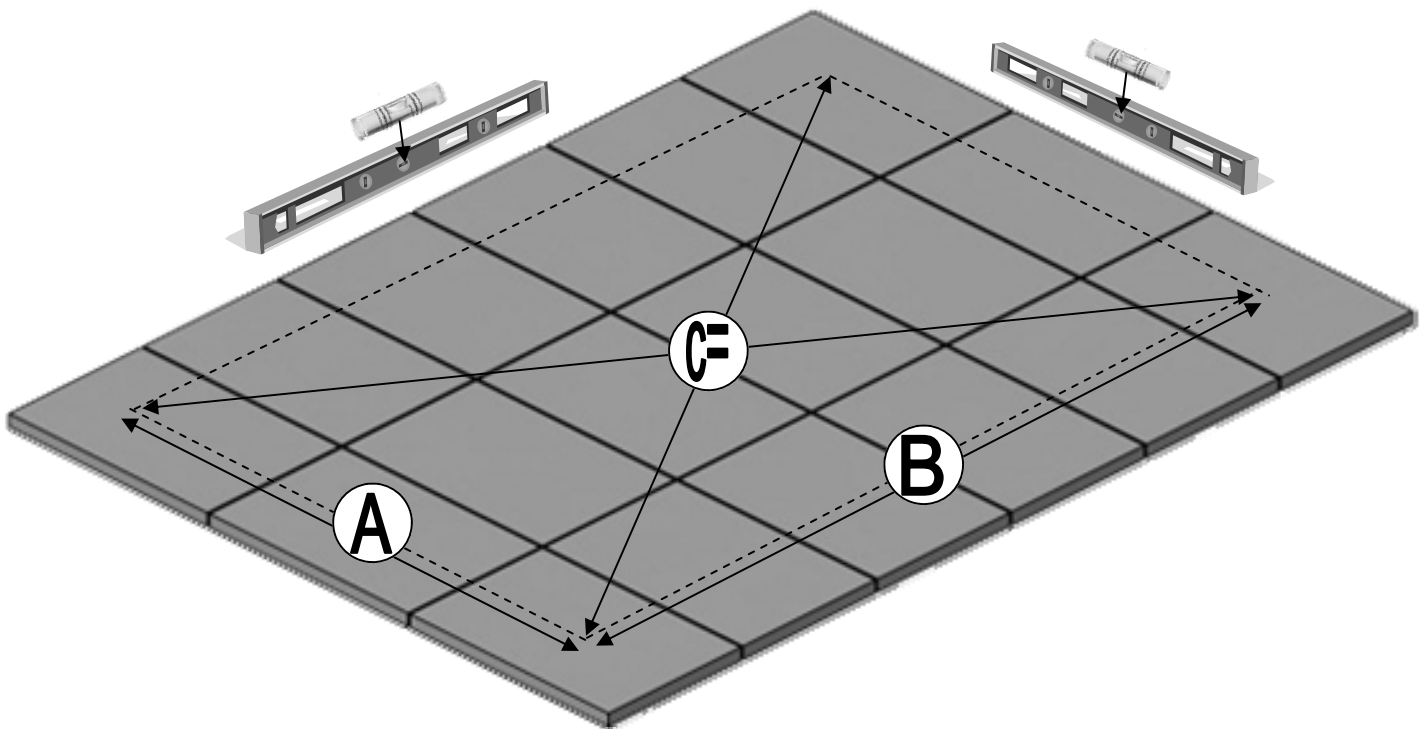
It is essential that the **BASE IS FLAT, LEVEL AND SQUARE AS WELL AS BEING SUBSTANTIAL** enough to take the weight of the greenhouse including its 4mm glass.

Give yourself enough room around your base to allow for fitting the glass and any on-going maintenance / cleaning. A slab base which is larger than the greenhouse is the ideal solution and is our preferred foundation.

A brick perimeter base is equally suitable providing there is a concrete foundation beneath it. We suggest using a solid brick with no frogs or holes (quality stock bricks or semi-engineering bricks).

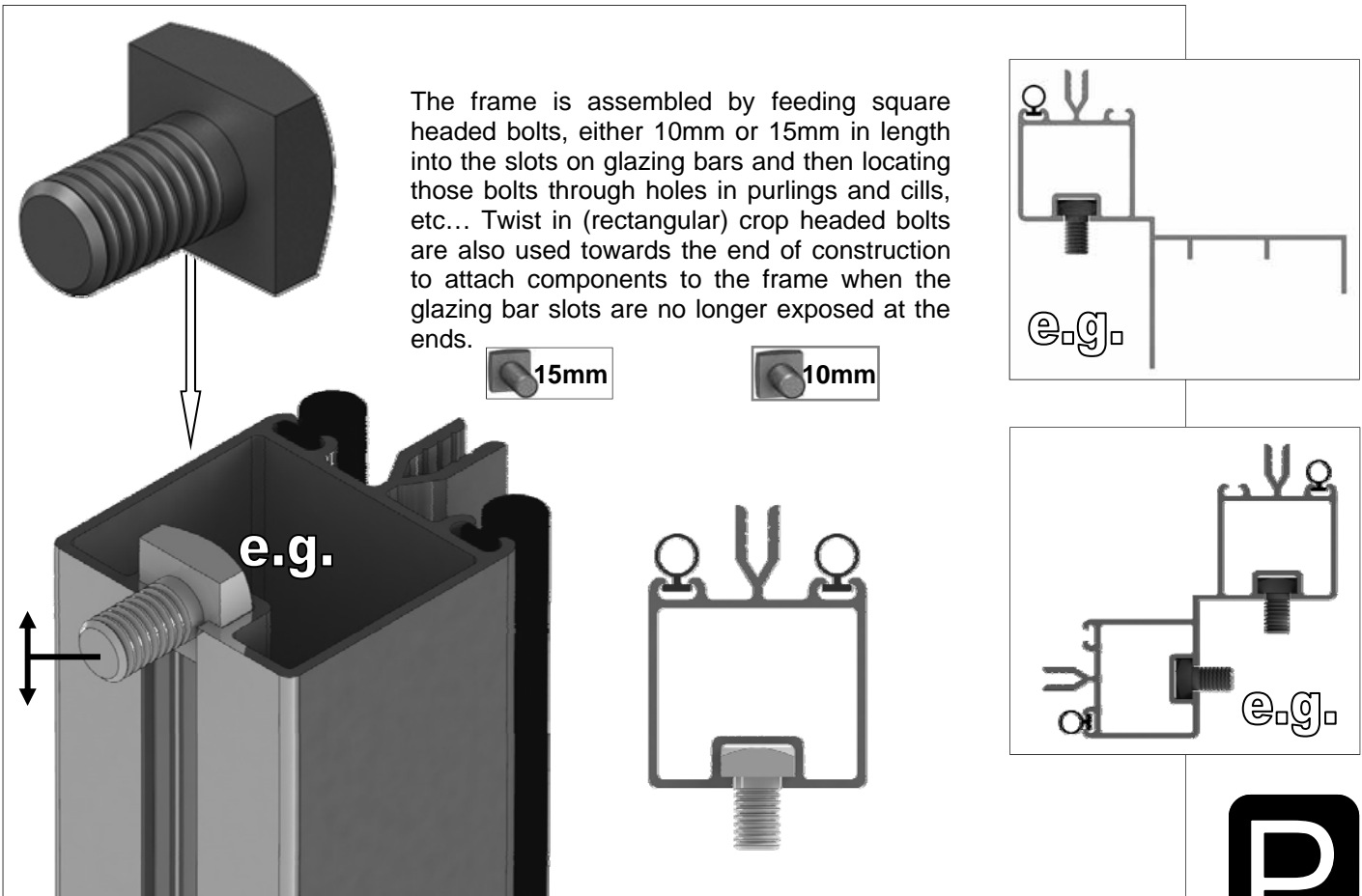
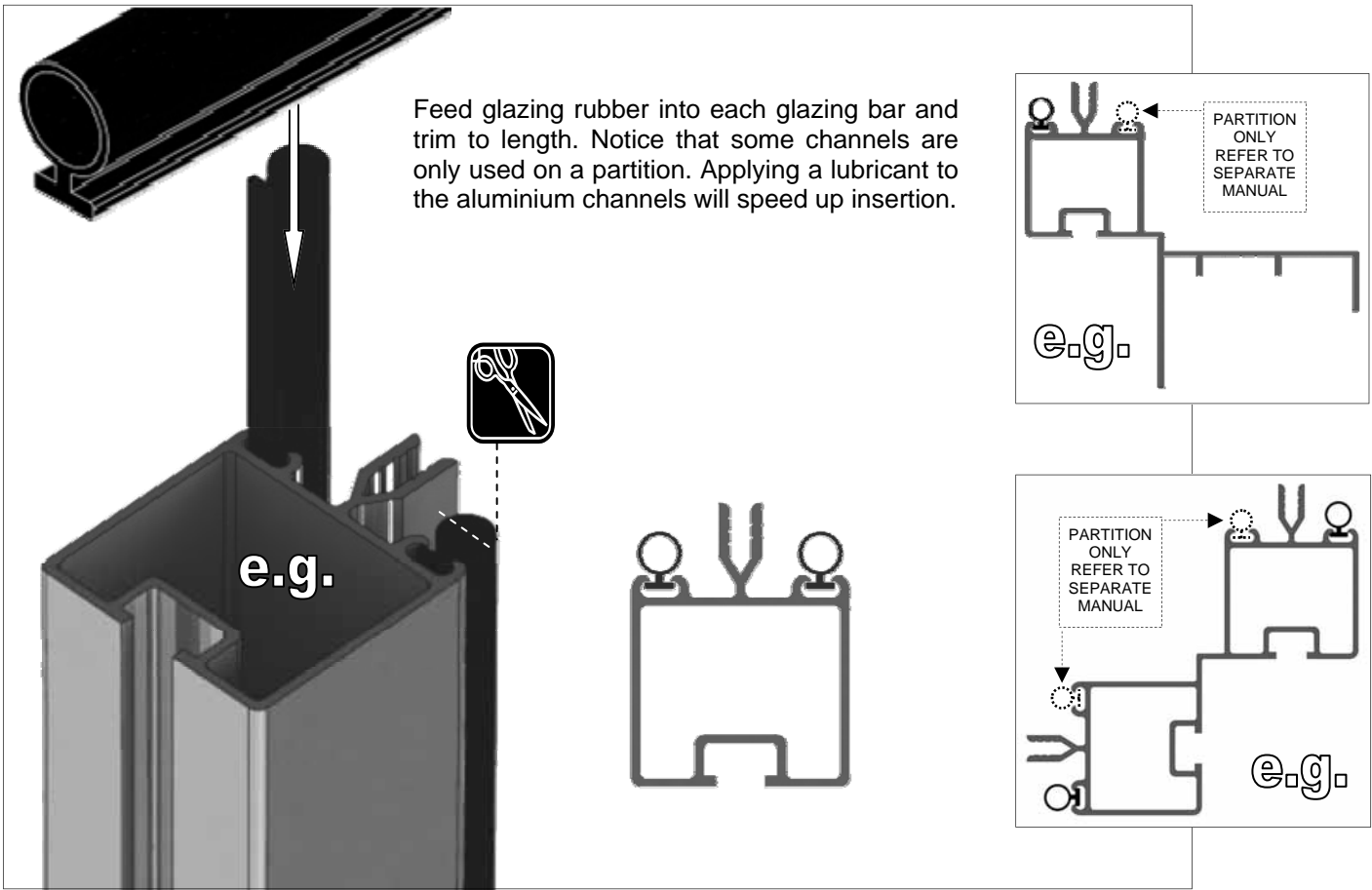
IMPORTANT: Do not anchor your greenhouse down until it is fully assembled including glazing unless you are 100% sure your base is square and level. If not your glass will not fit properly.

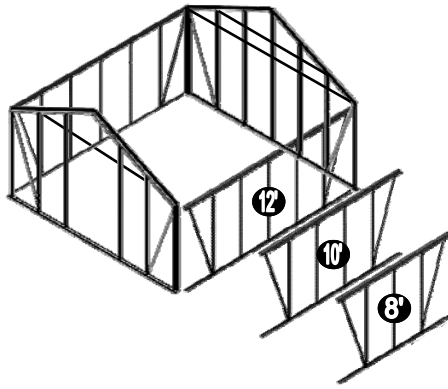
IMPORTANT: If you have anything overhanging the ridge on a lean-to building then please make sure it does not interfere with the motion of the roof vents.



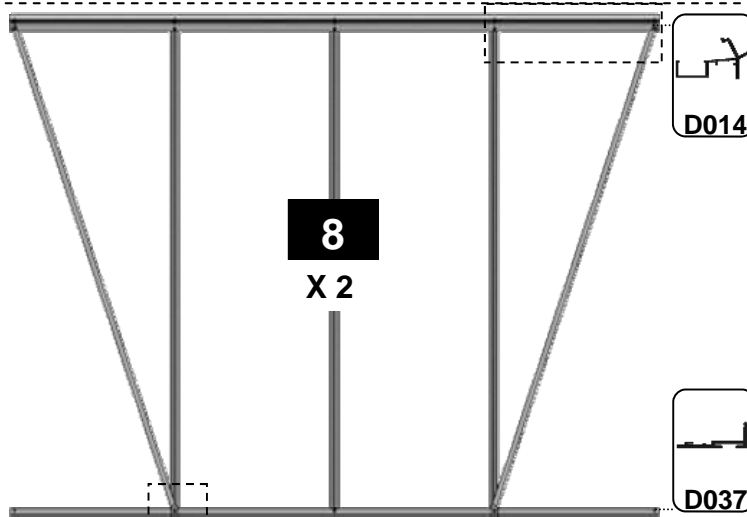
EXTERNAL DIMENSIONS (mm)				
Model sizes listed are nominal , use ' <u>mm</u> ' measurements. i.e.: an 8 x 10 is the model 8'6" x 10' 8"				
MODEL		A (mm) WIDTH	B (mm) LENGTH	C (mm) DIAGONAL
REACH REGAL	12 x 8	3876	2632	4642
	12 x 10		3252	5020
	12 x 12		3872	5442
EXTENSIONS	6ft ext.	-	1860	-







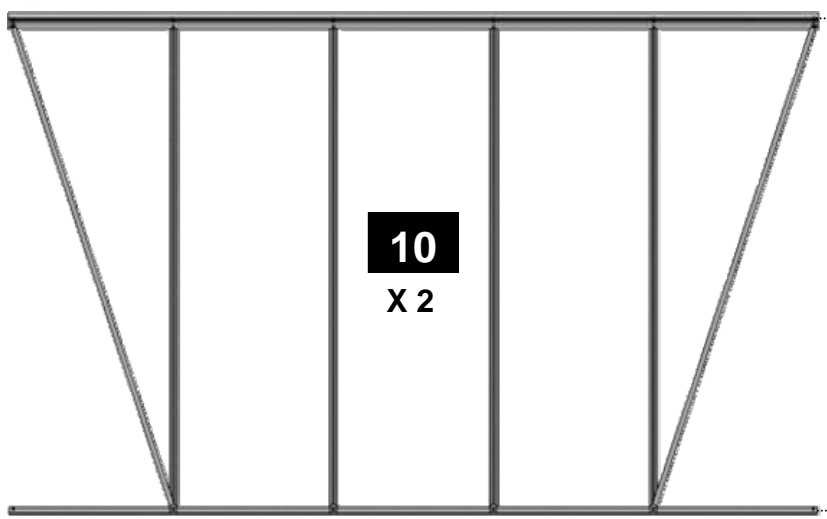
e.g. ①



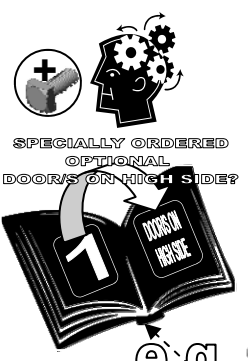
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X 2



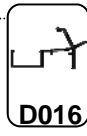
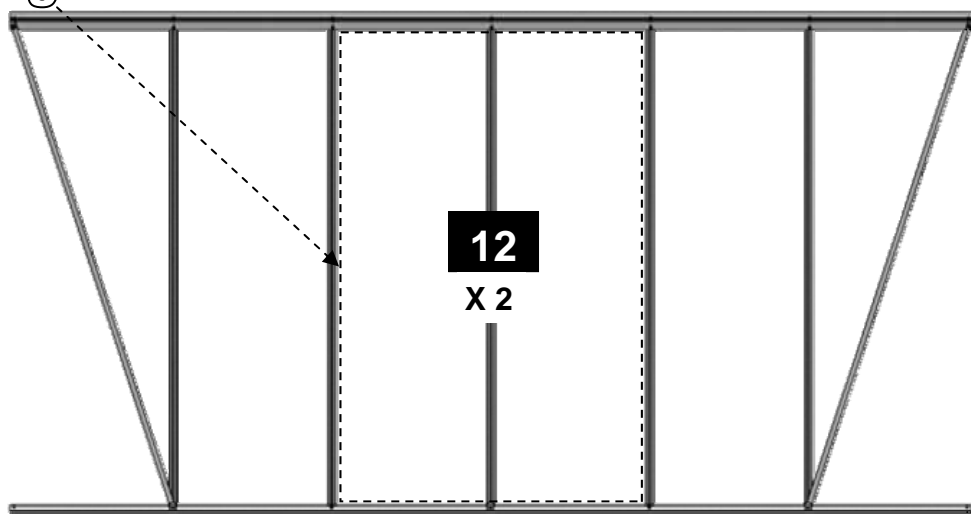
e.g. ②



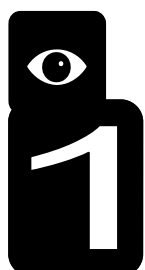
10
X 2



e.g.



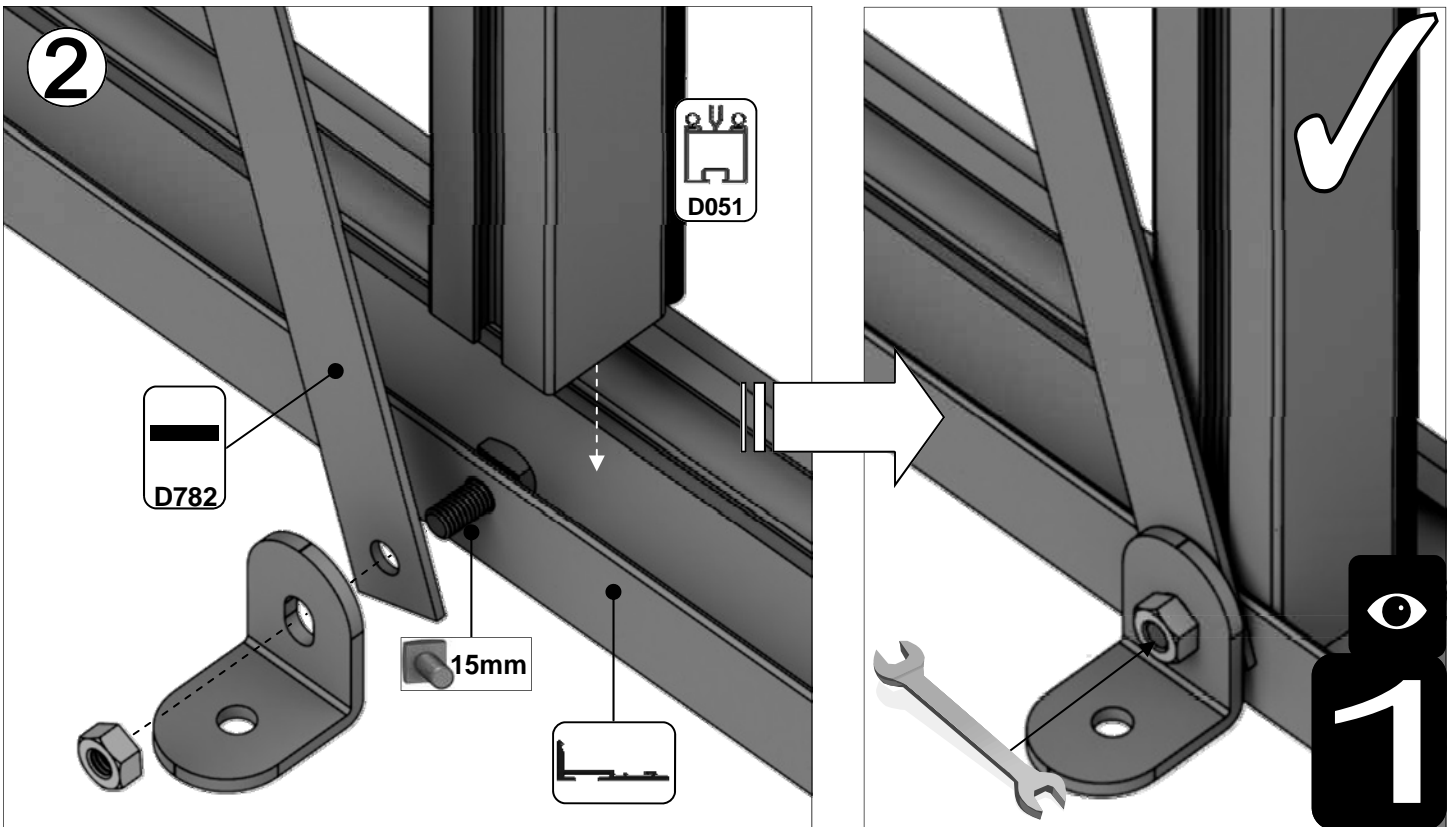
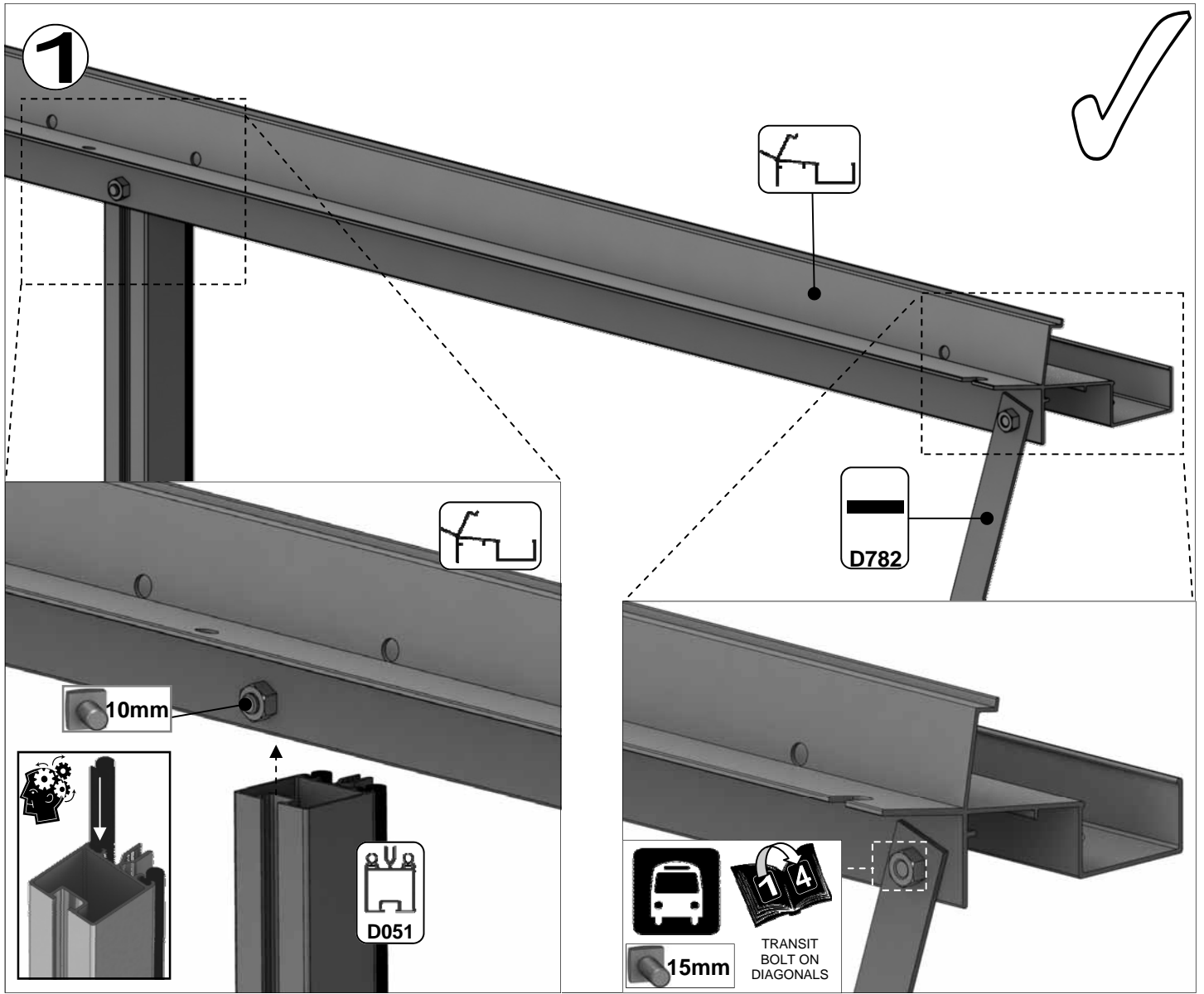
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X 2

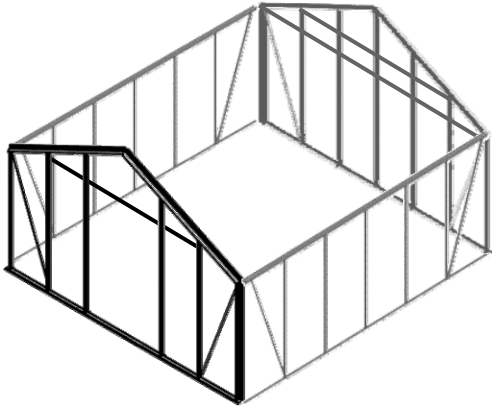


HIGH SIDE 8 X 2		
Part No	mm	Quantity
D014	2517	2
D037	2510	2
D051	1976	6
D782	2071	4
D174		4
M6-10mm		6
M6-15mm		10
M6-NUT		16
Rubber	1000	24

HIGH SIDE 10X 2		
Part No	mm	Quantity
D015	3137	2
D050	3130	2
D051	1976	8
D782	2071	4
D174		8
M6-10mm		8
M6-15mm		12
M6-NUT		20
Rubber	1000	32

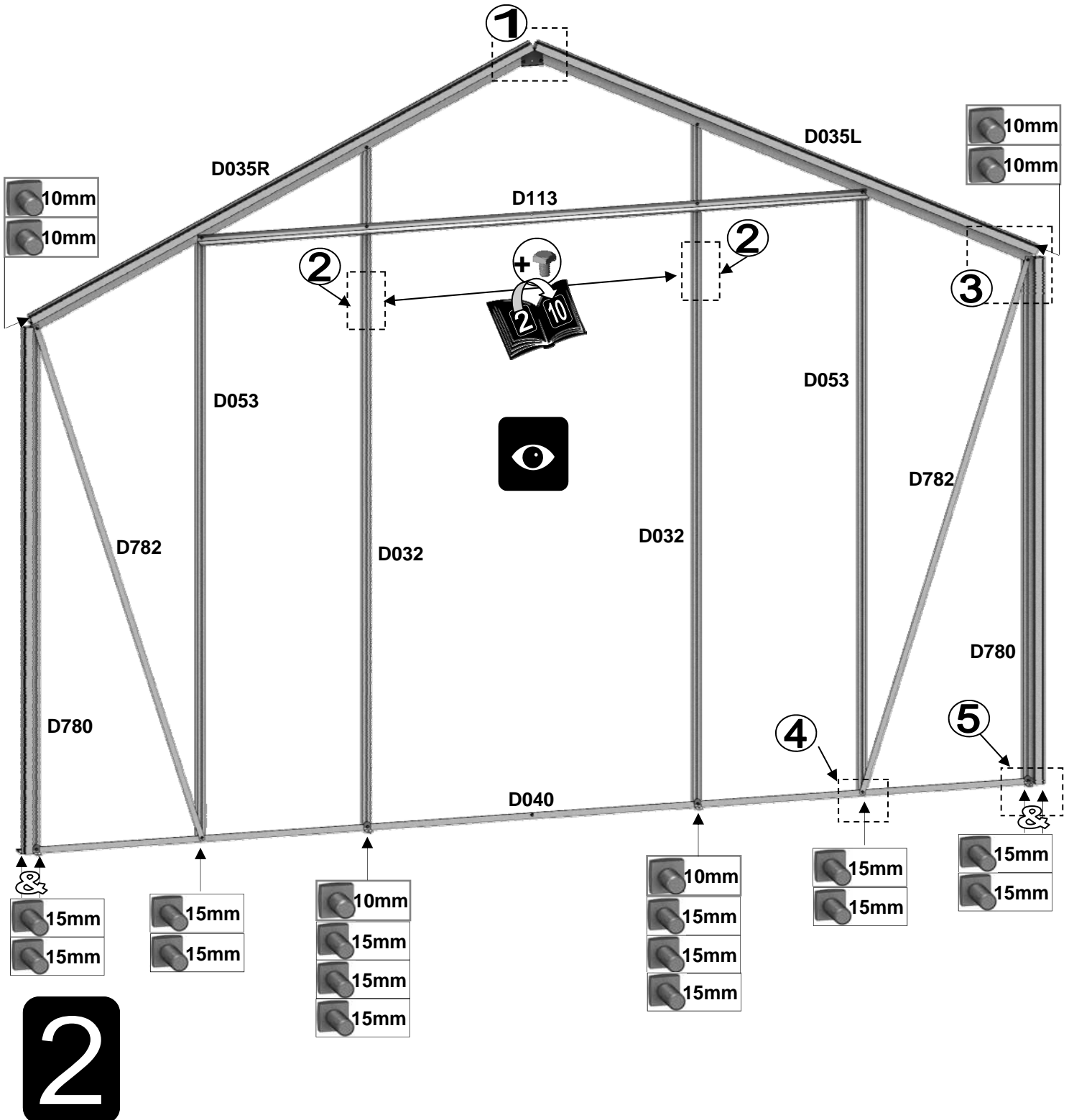
HIGH SIDE 12X 2		
Part No	mm	Quantity
D016	3757	2
D040	3750	2
D051	1976	10
D782	2071	4
D174		8
M6-10mm		10
M6-15mm		14
M6-NUT		24
Rubber	1000	40

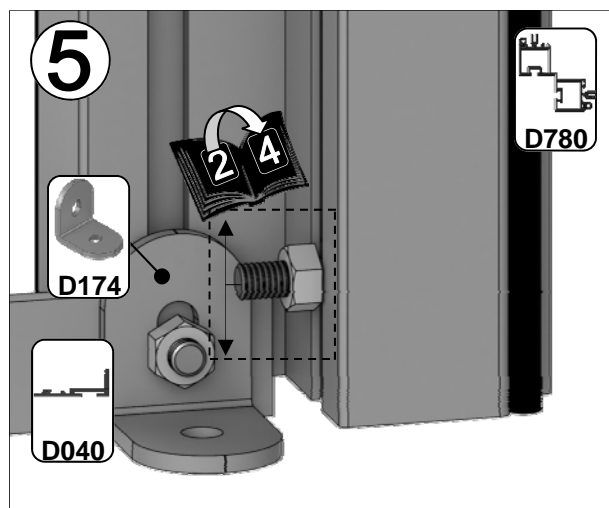
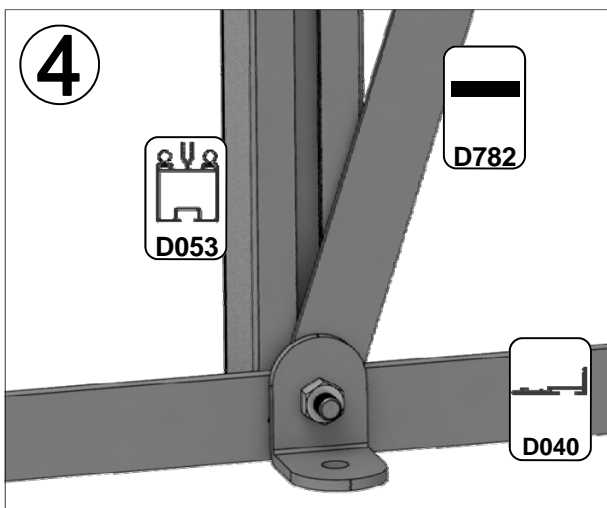
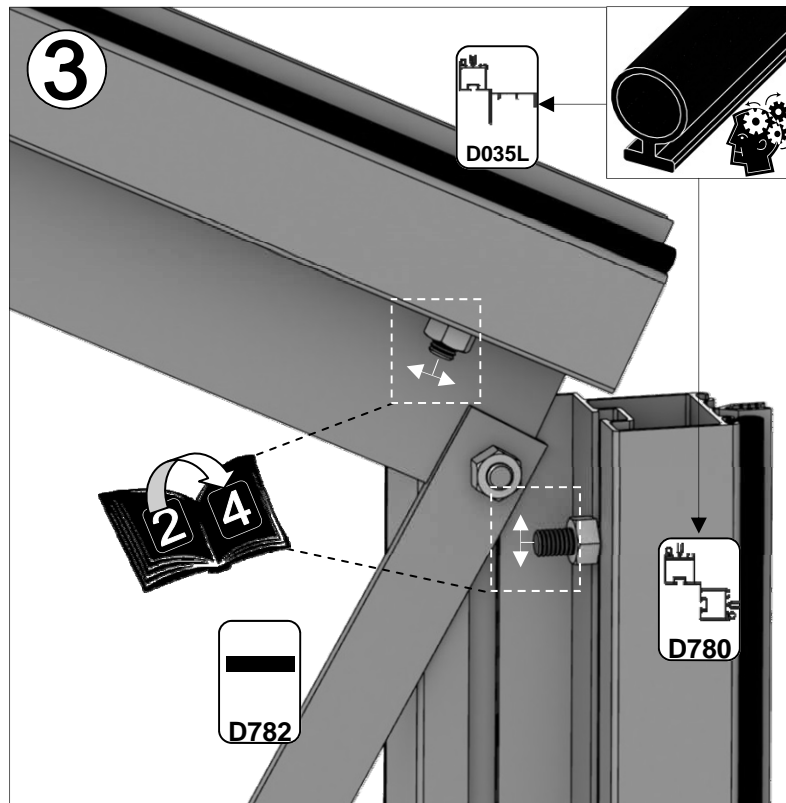
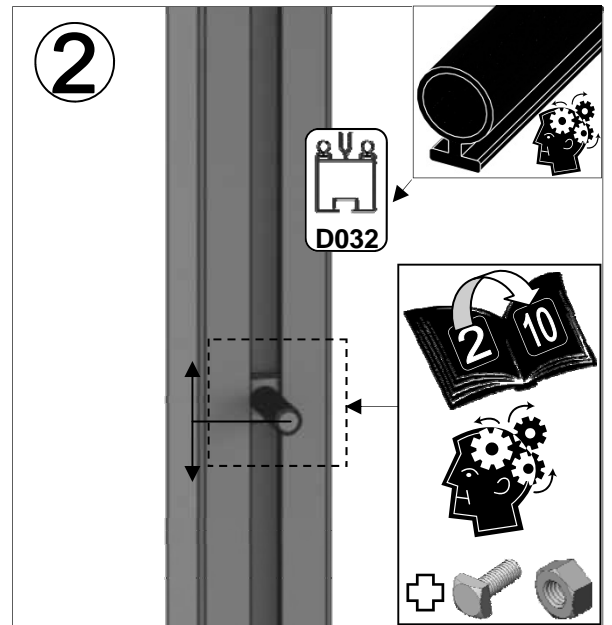
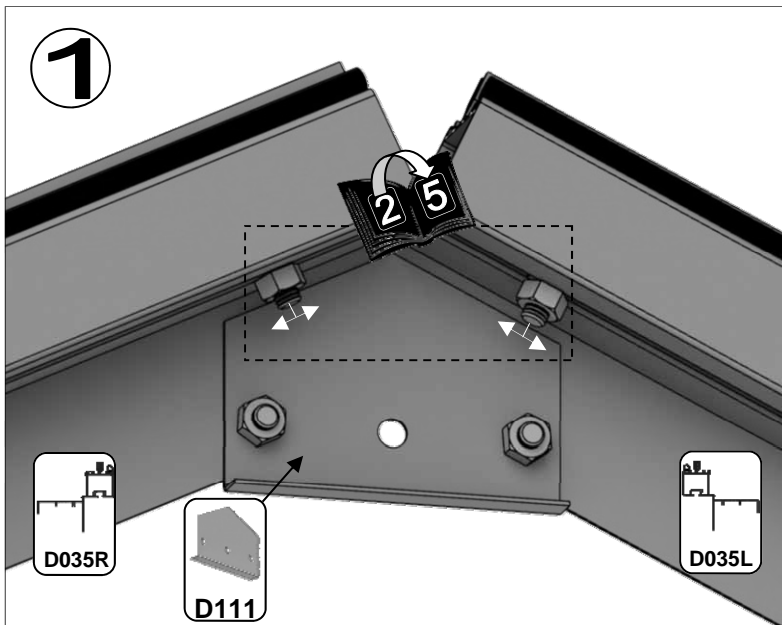


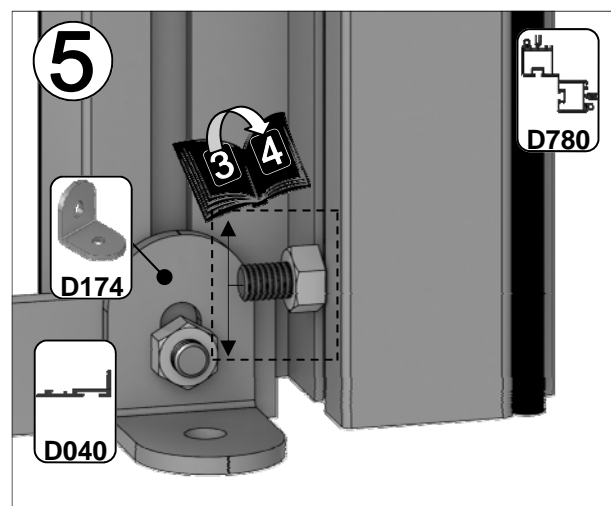
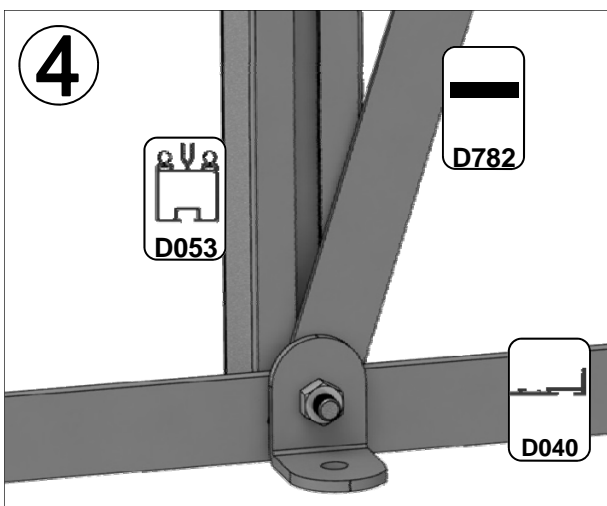
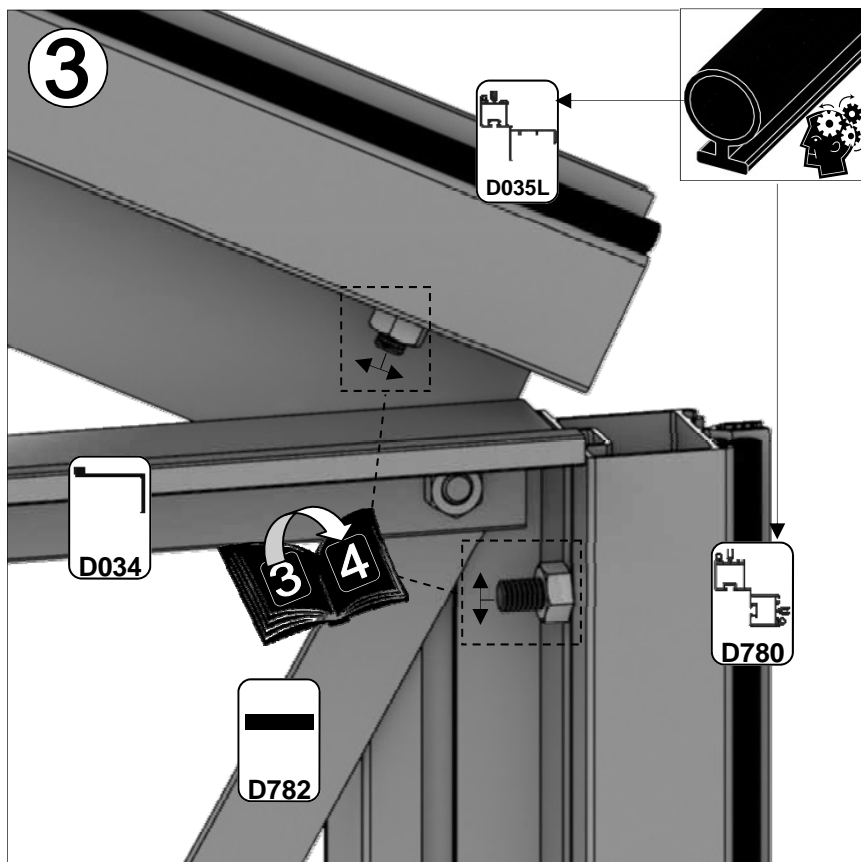
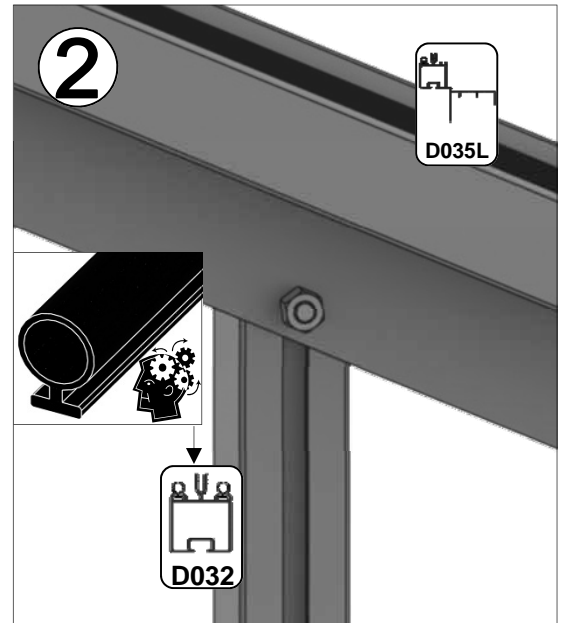
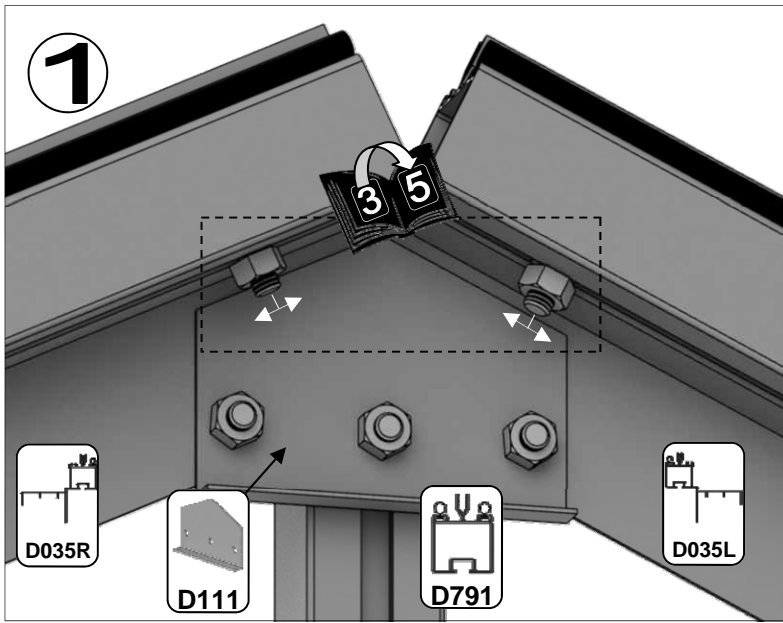


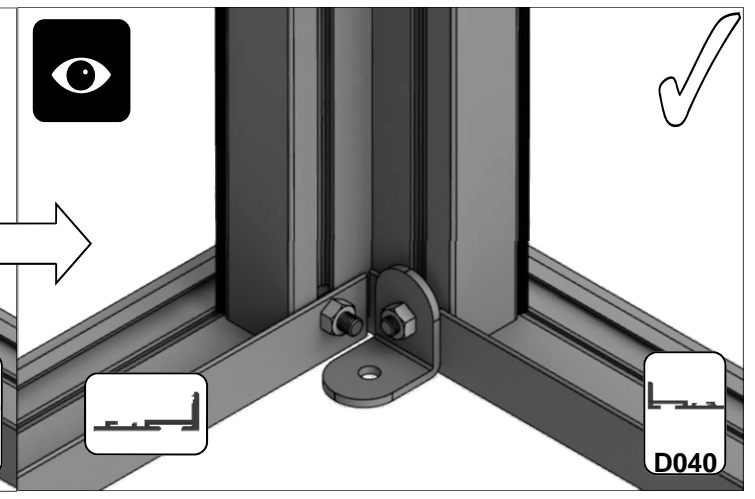
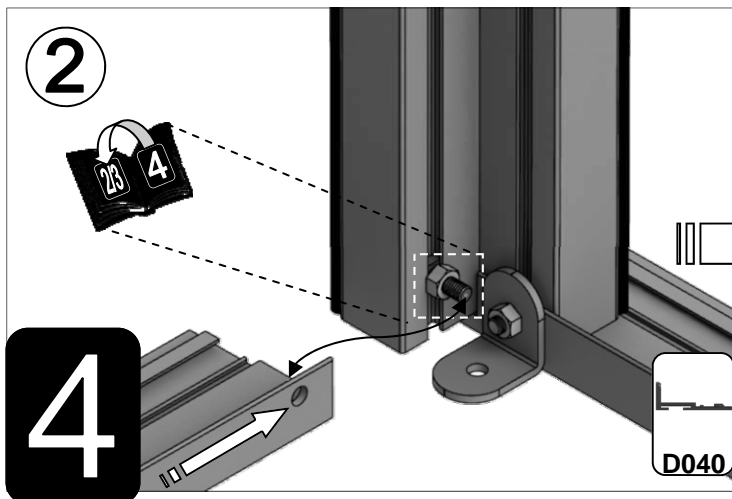
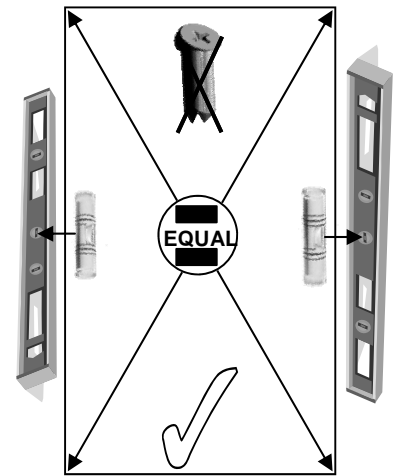
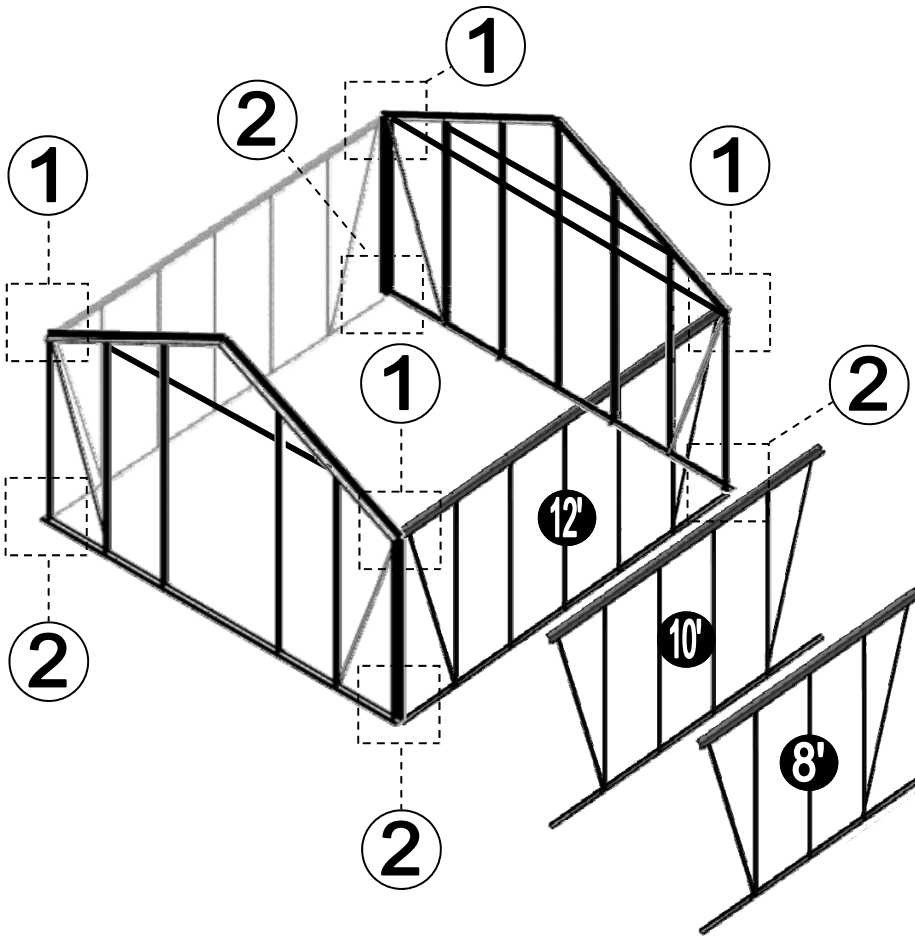
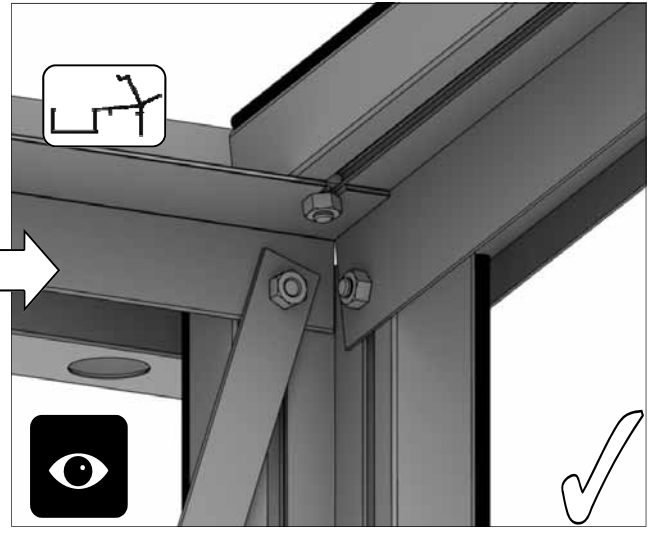
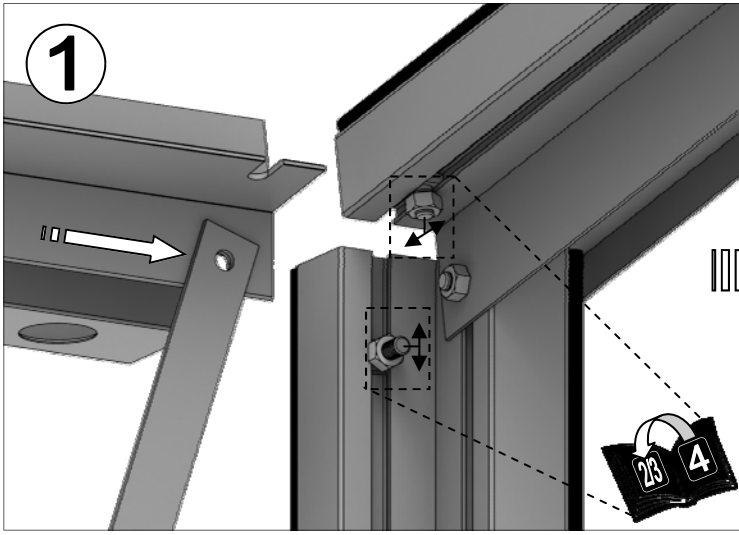
Part No	mm	Quantity
D032	2568	2
D035L	2082	1
D035R	2082	1
D040	3750	1
D053	2272	2
D113	2510	1
D780	1976	2
D782	2071	2

Part No	mm	Quantity
D111		1
D174		4
D227		33
M6X10		8
M6X15		18
M6NUT		26





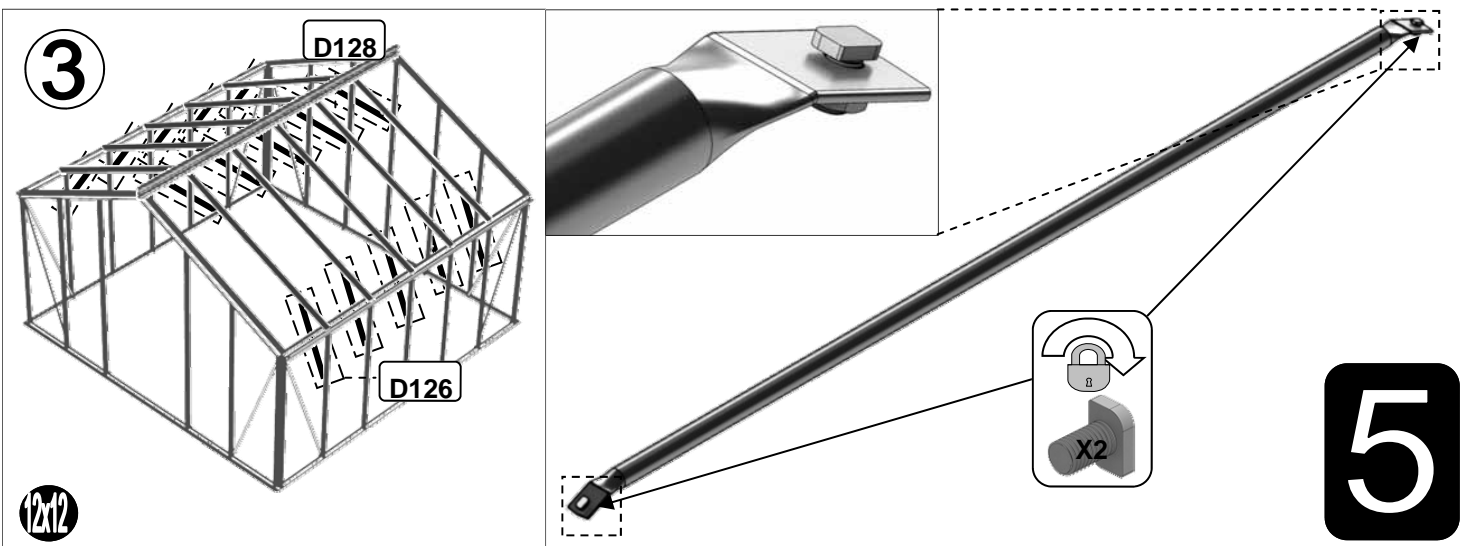
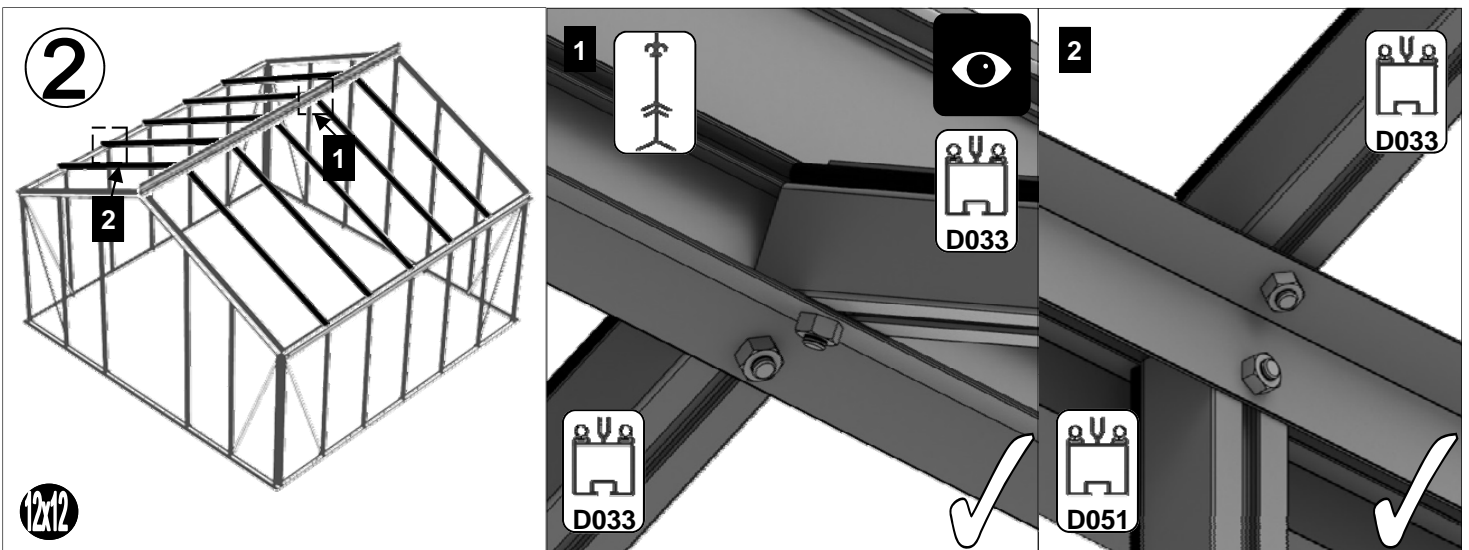
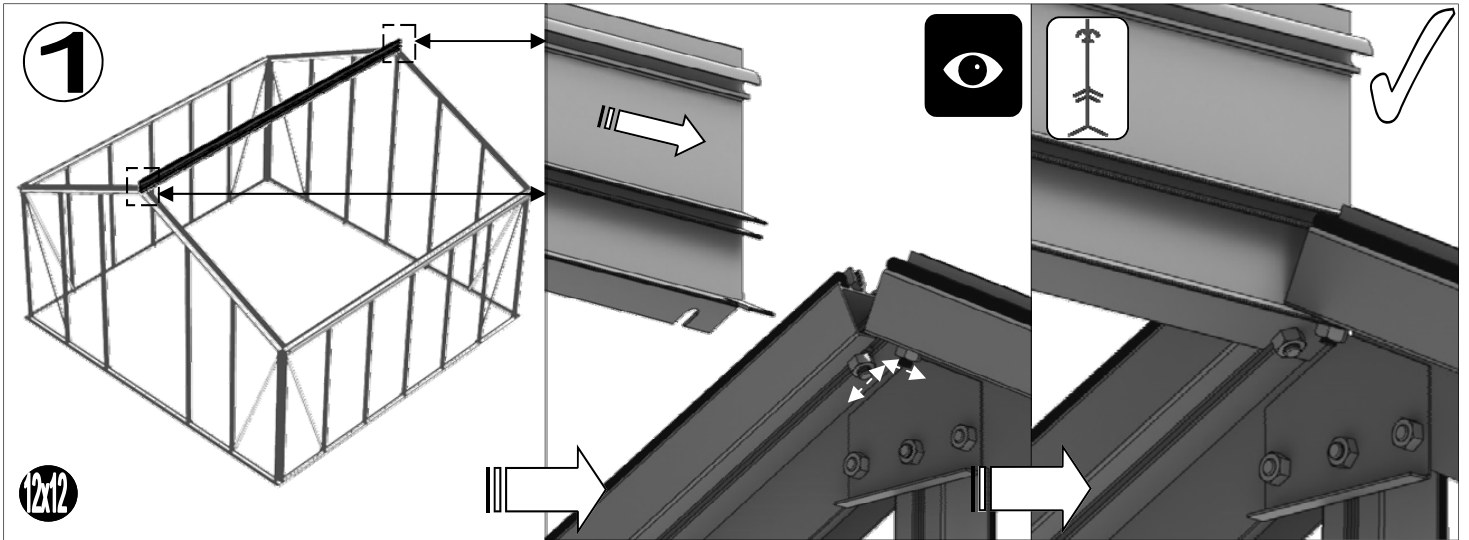




8'		
Part No	mm	Quantity
D001	2517	1
D033	2082	6
D126	445	6
D128	1015	3
RUBBER	1000	25

10'		
Part No	mm	Quantity
D002	3137	1
D033	2082	8
D126	445	8
D128	1015	4
RUBBER	1000	34

12'		
Part No	mm	Quantity
D003	3757	1
D033	2082	10
D126	445	10
D128	1015	5
RUBBER	1000	42



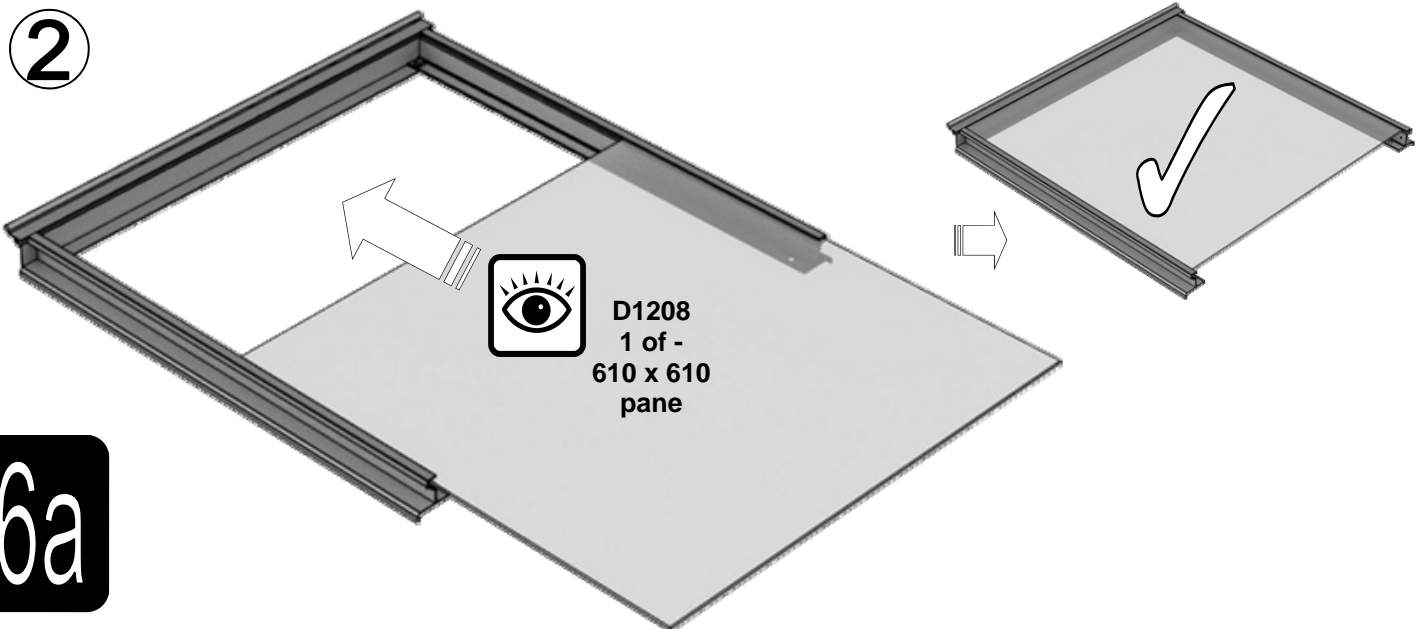
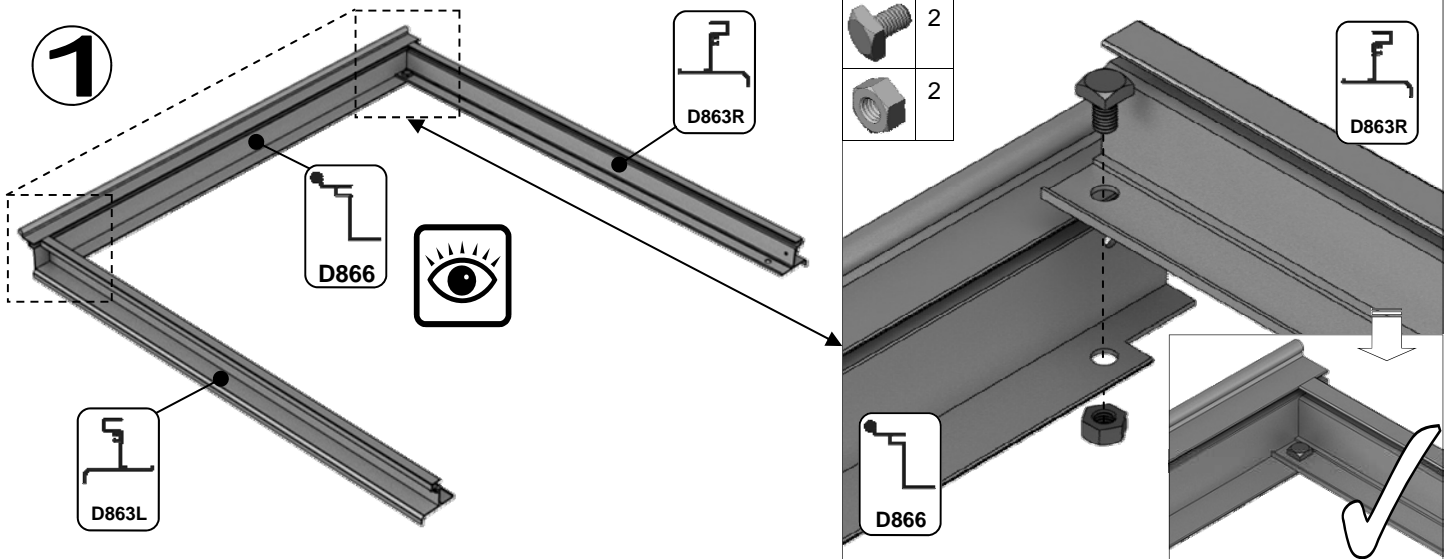
5




D1208
1 of -
610 x 610
pane

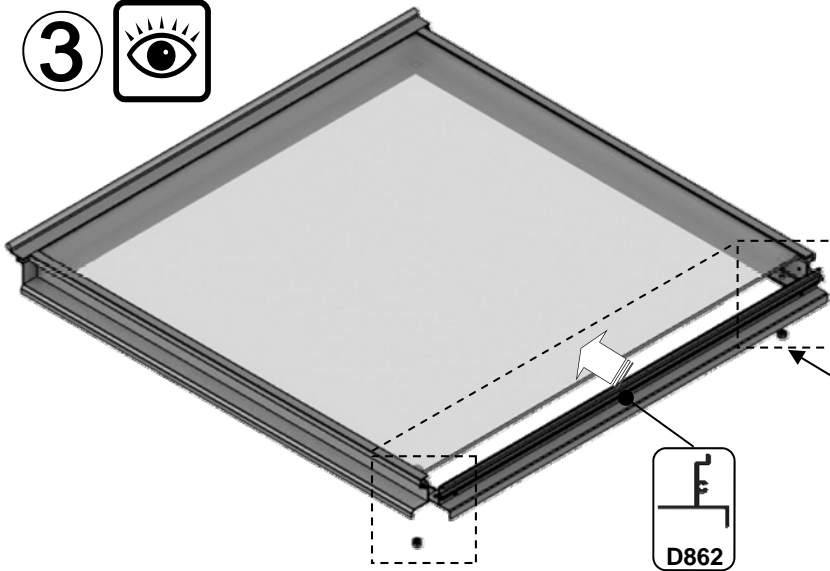
Part No		mm	Quantity
D866		639	1
D863L		613	1
D863R		613	1
D862		593	1

Part No		mm	Quantity
D220 PLUS FS6060 SCREW		N/A	2
D205		N/A	2
SY-BOLM6X11		10	4
SYNUTM6		M6	4
8 X 12 S/T FS6017		10	2
8 x 19 S/T FS6018		19	2

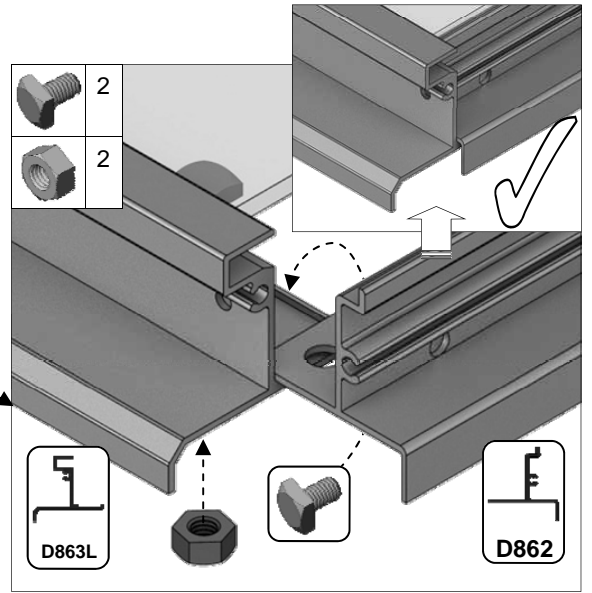


6a

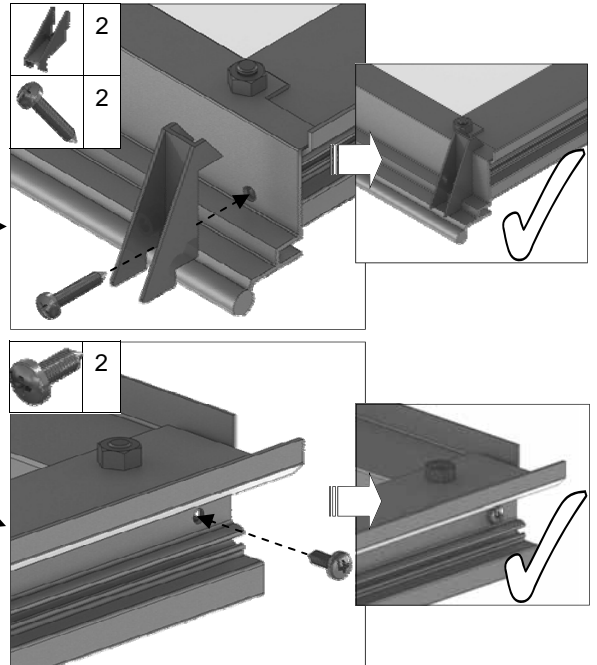
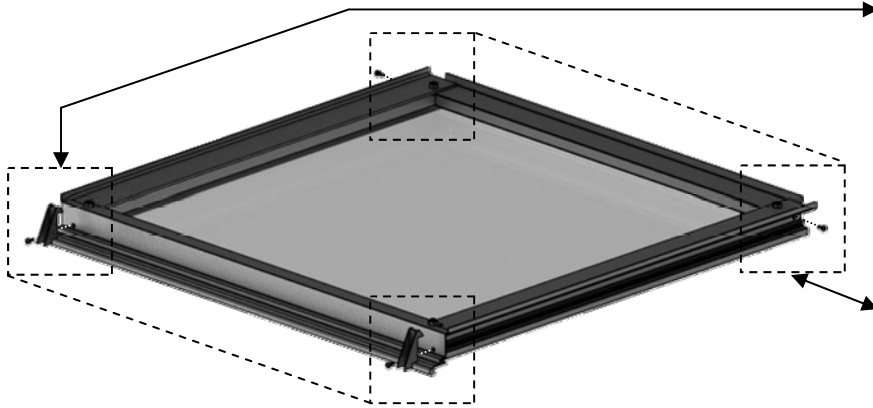
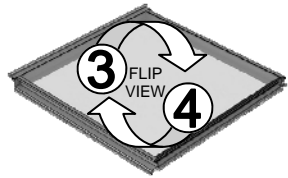
3 



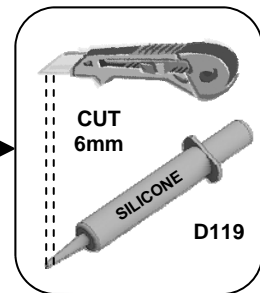
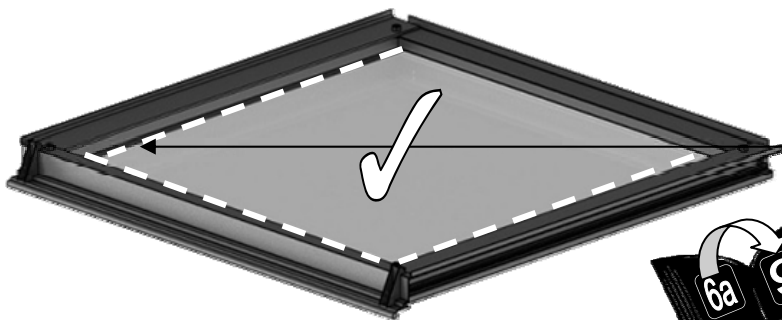

D862



4 









5 



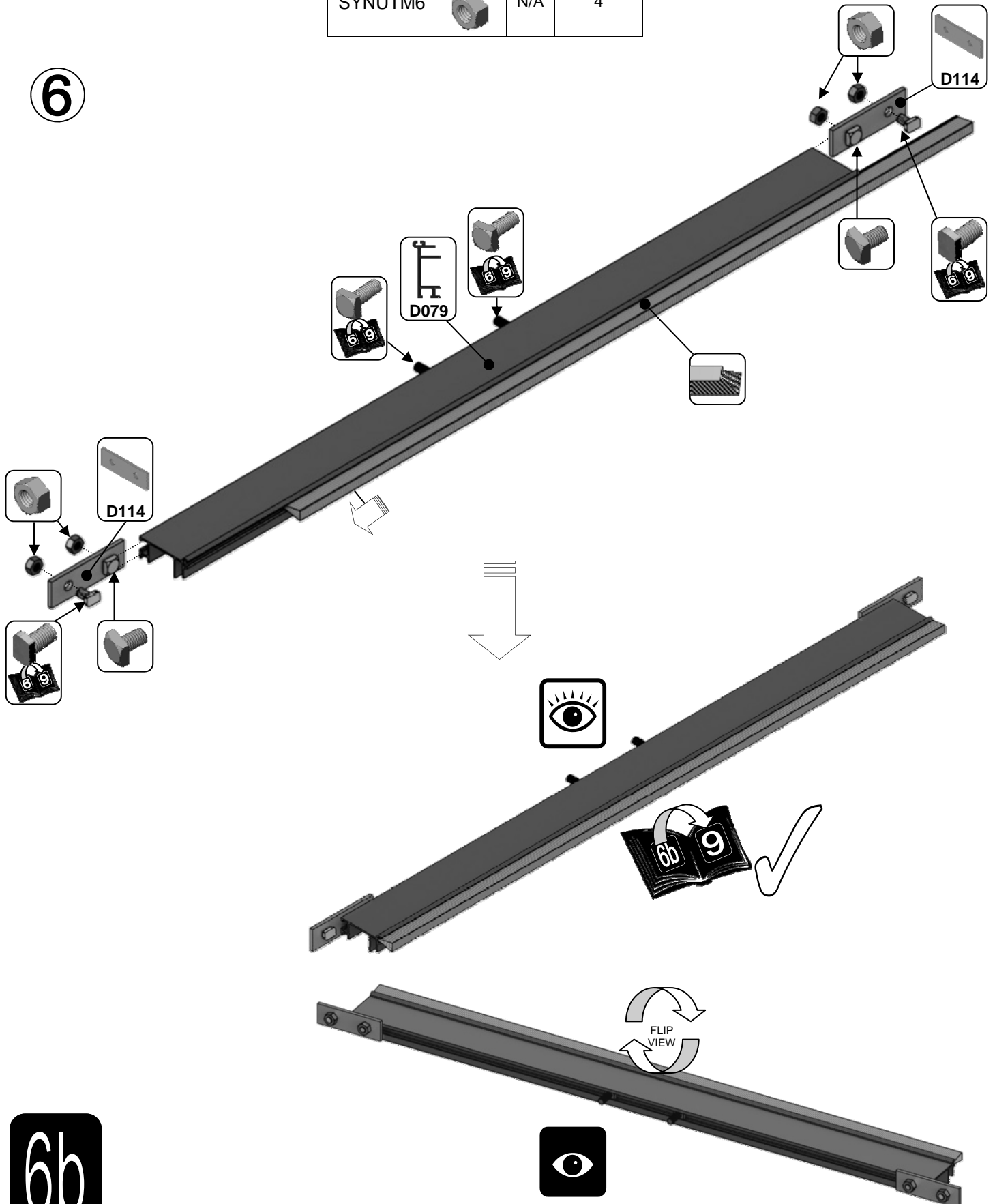
6a

1 vent
slam bar = {

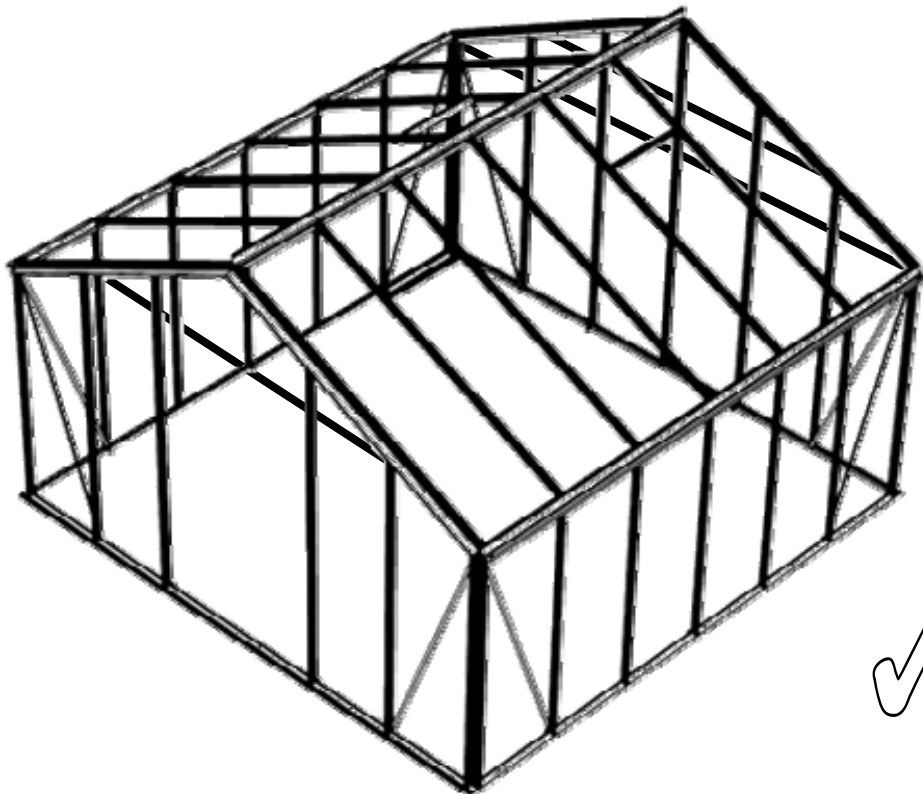
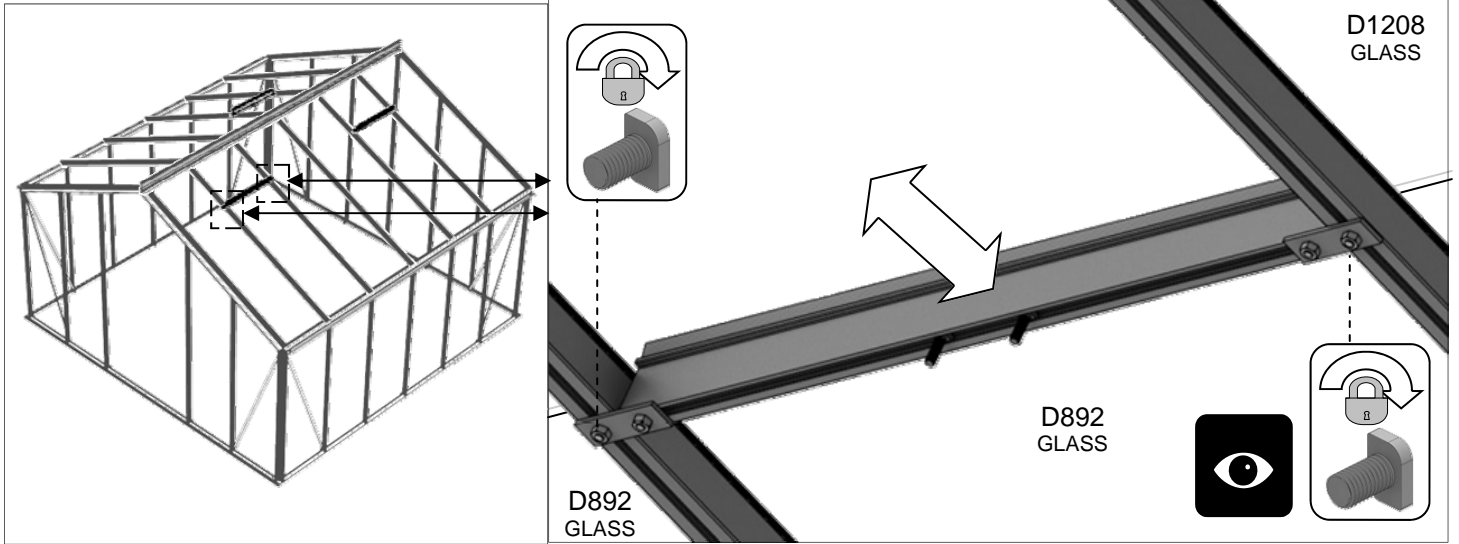
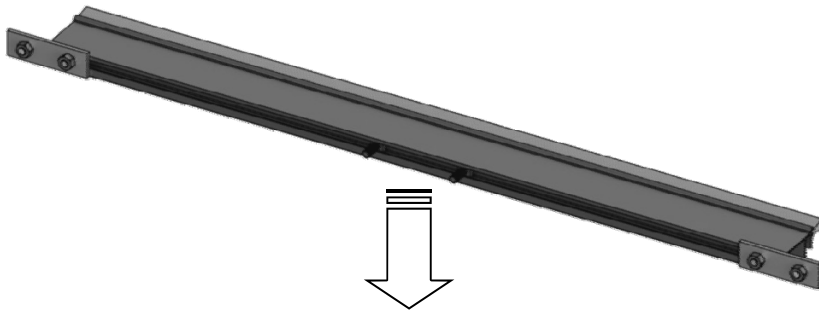
Part No		mm	Quantity
SY-BOLM6X11		10	2
SY-BOLM6X15		15	2
SYBOLM6 X11CROP		10	2
SYNUTM6		N/A	4

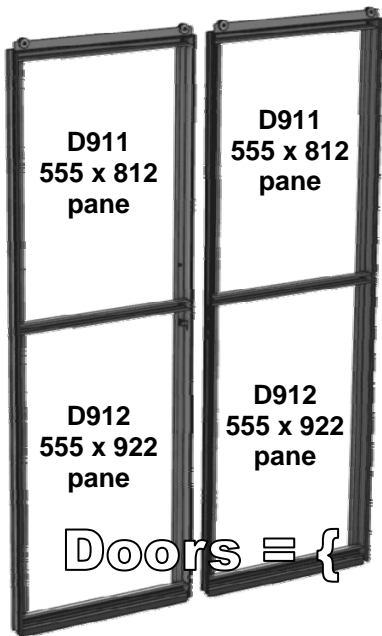
Part No		mm	Quantity
D079 PLUS FLUFF		590	1
D114		N/A	2

6



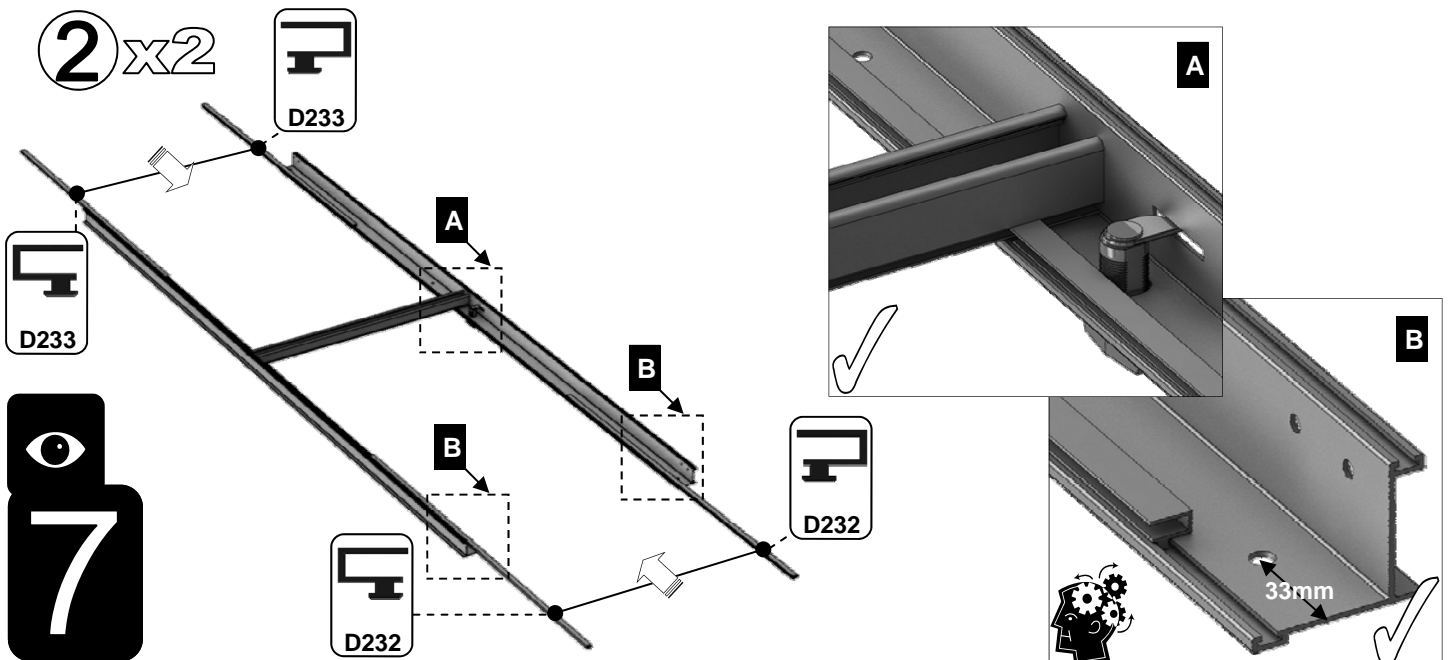
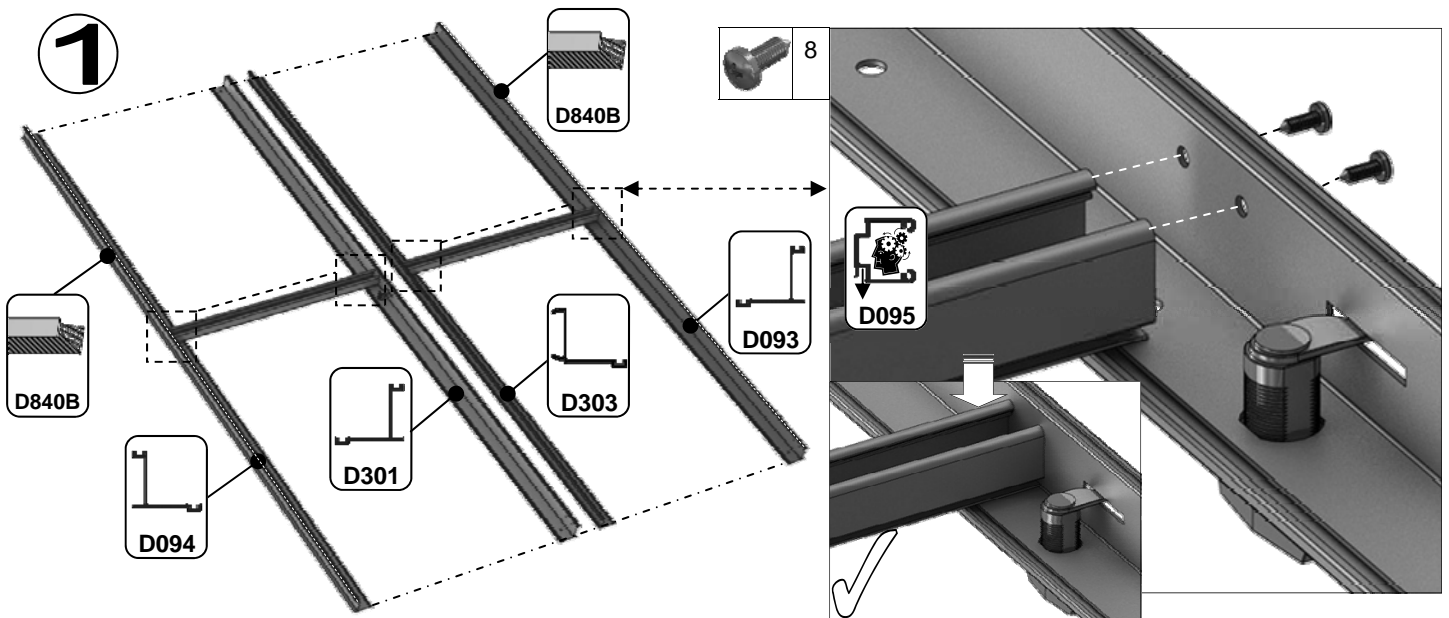
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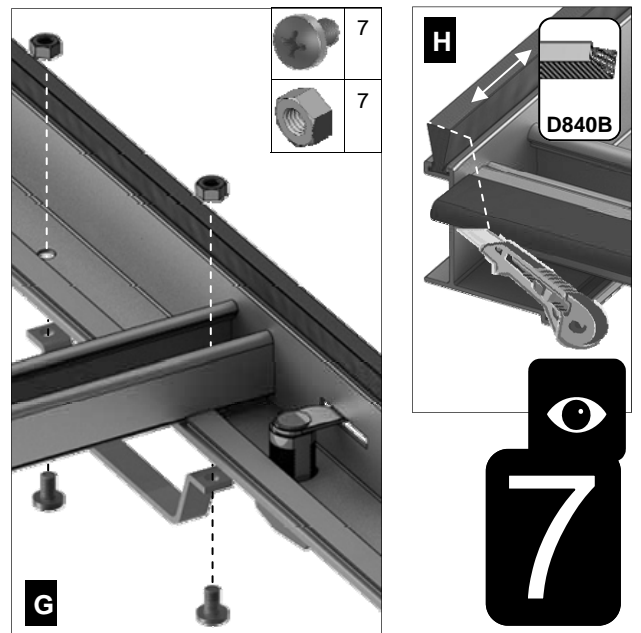
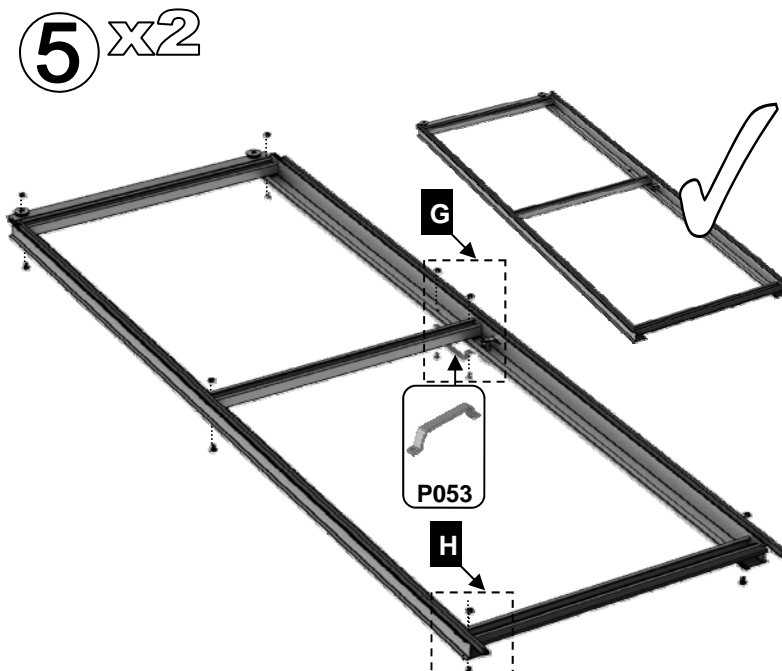
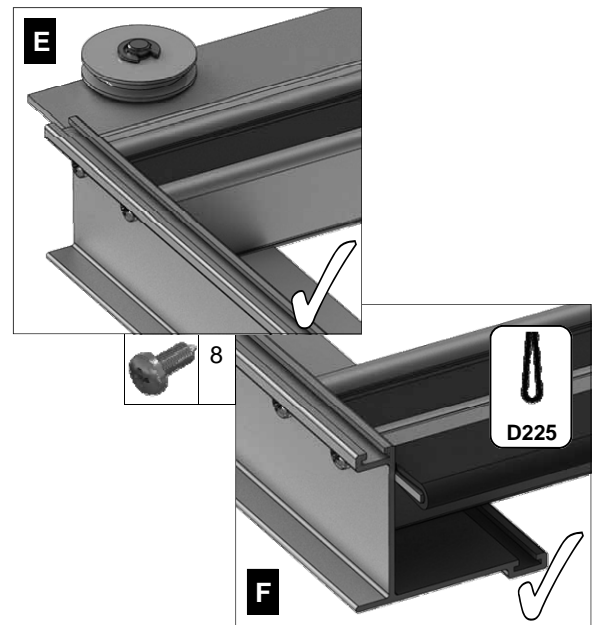
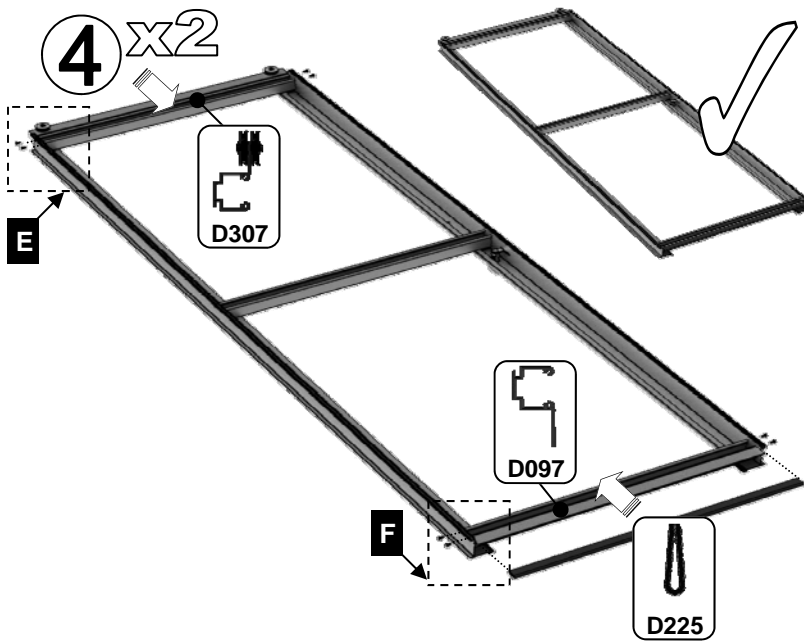
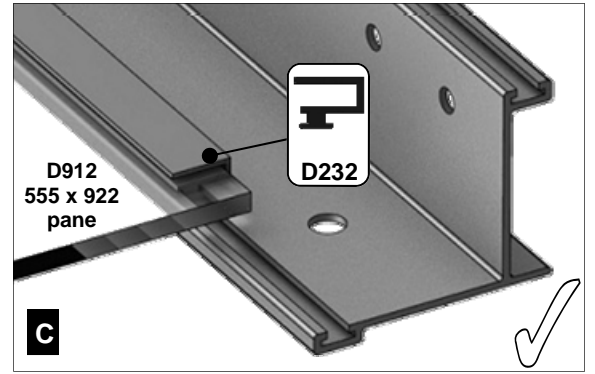
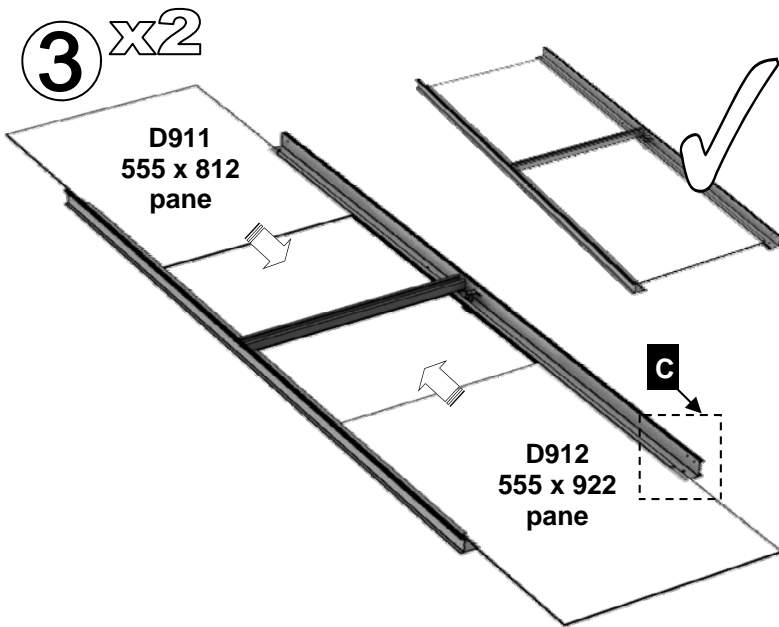




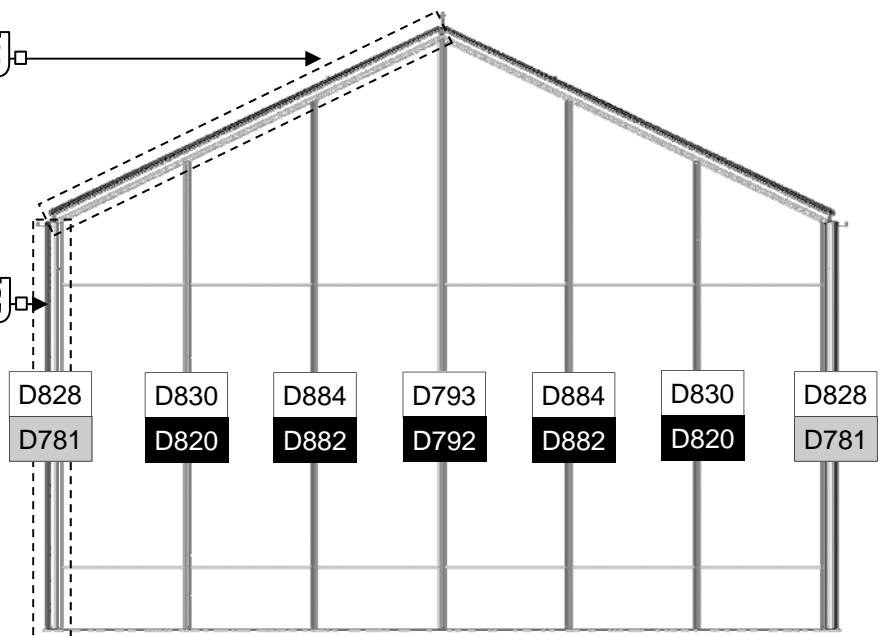
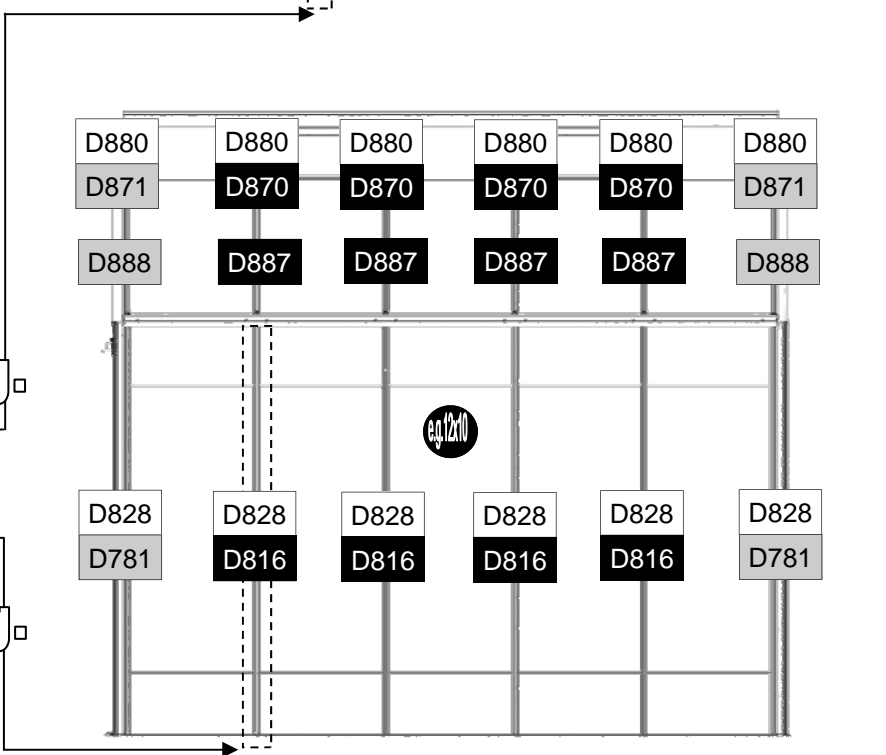
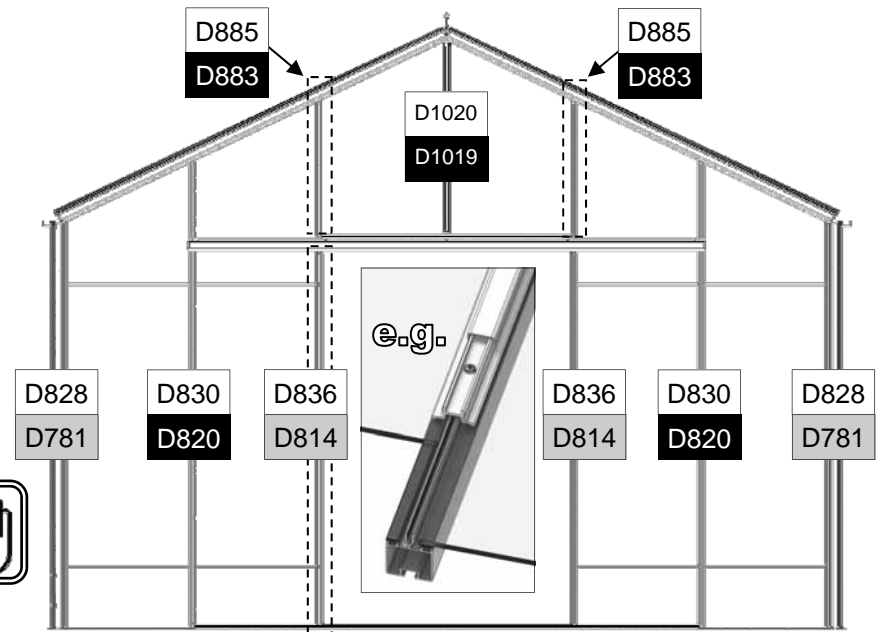
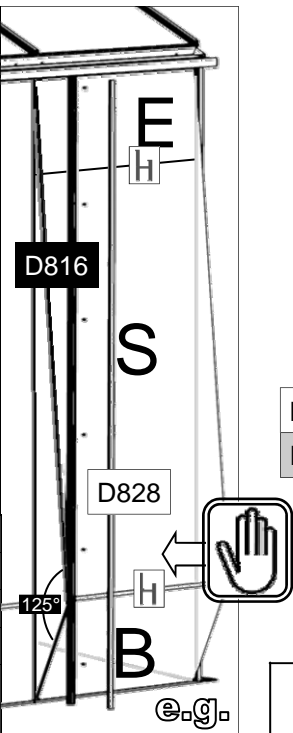
Part No		mm	Q
D094		1824	1
D090 + D347 lock = D301		1824	1
D092 + D156 strike = D303		1824	1
D093		1824	1
D096 + D217 wheel = D307		611	2
D095		611	2
D097		611	2

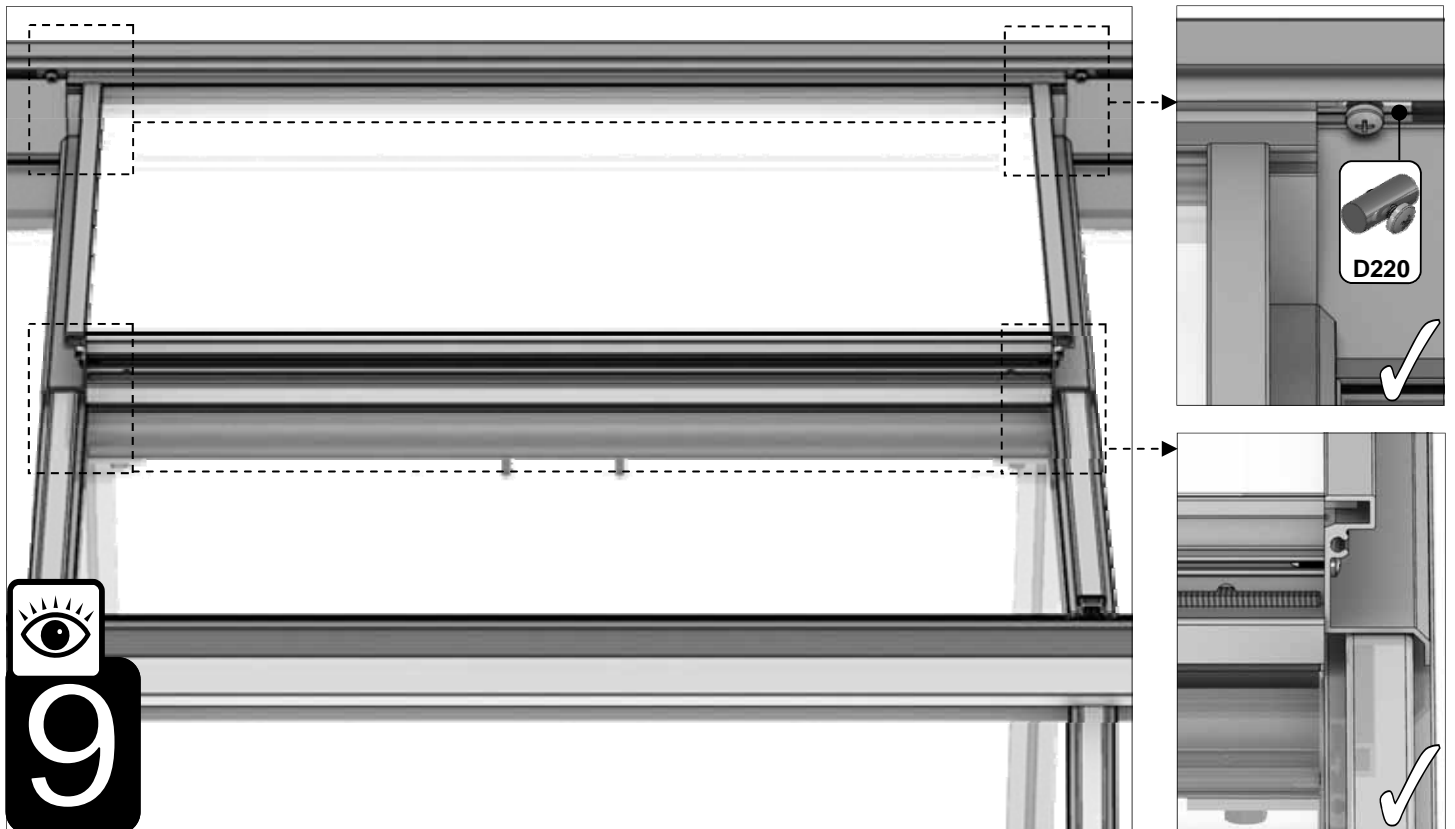
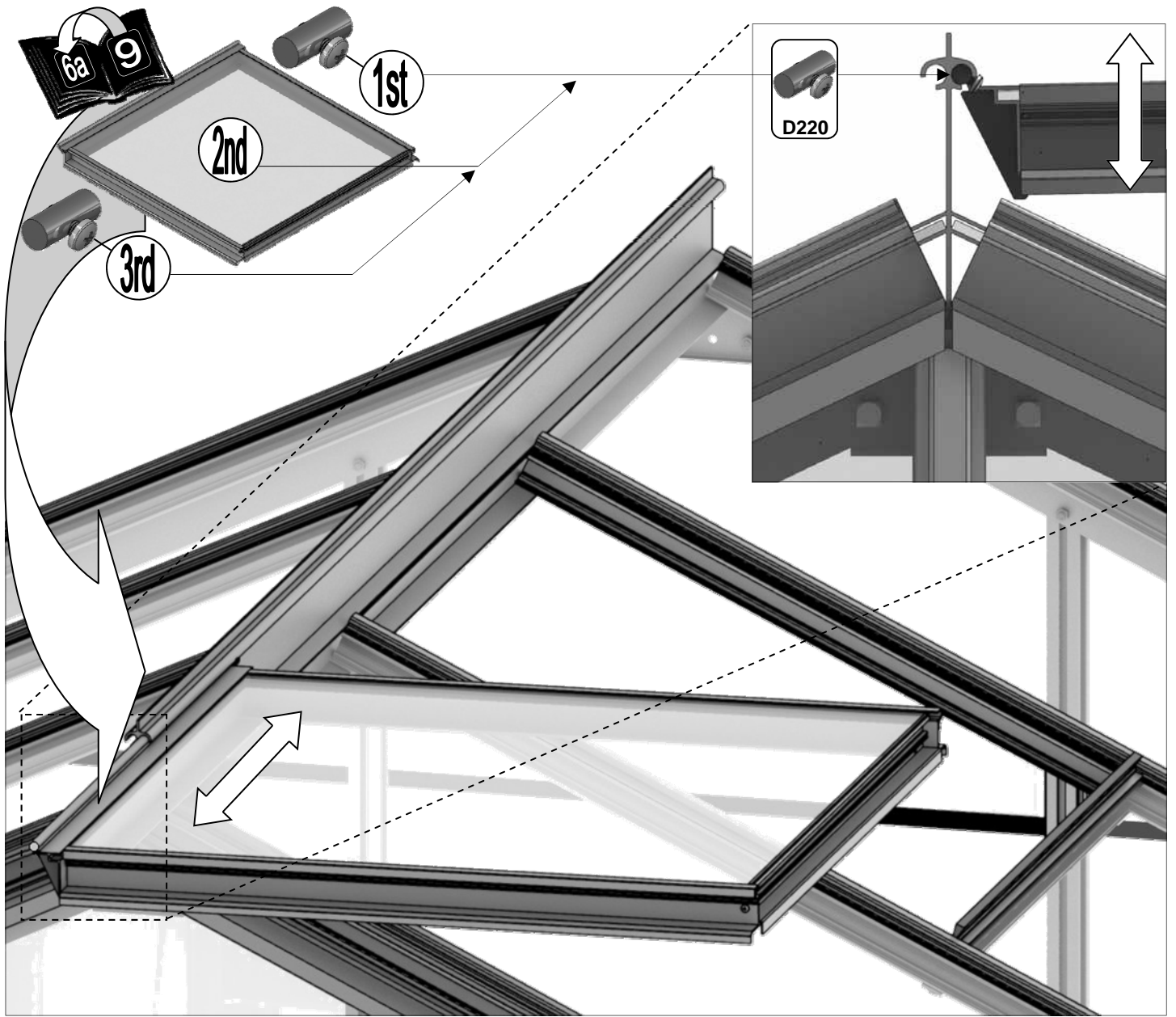
Part No		mm	Q
D232		905	4
D233		797	4
P053		N/A	2
D225		610	2
D840B		4000	1
D263 PACK x 2		N/A	14
		N/A	14
D261 PACK		N/A	24

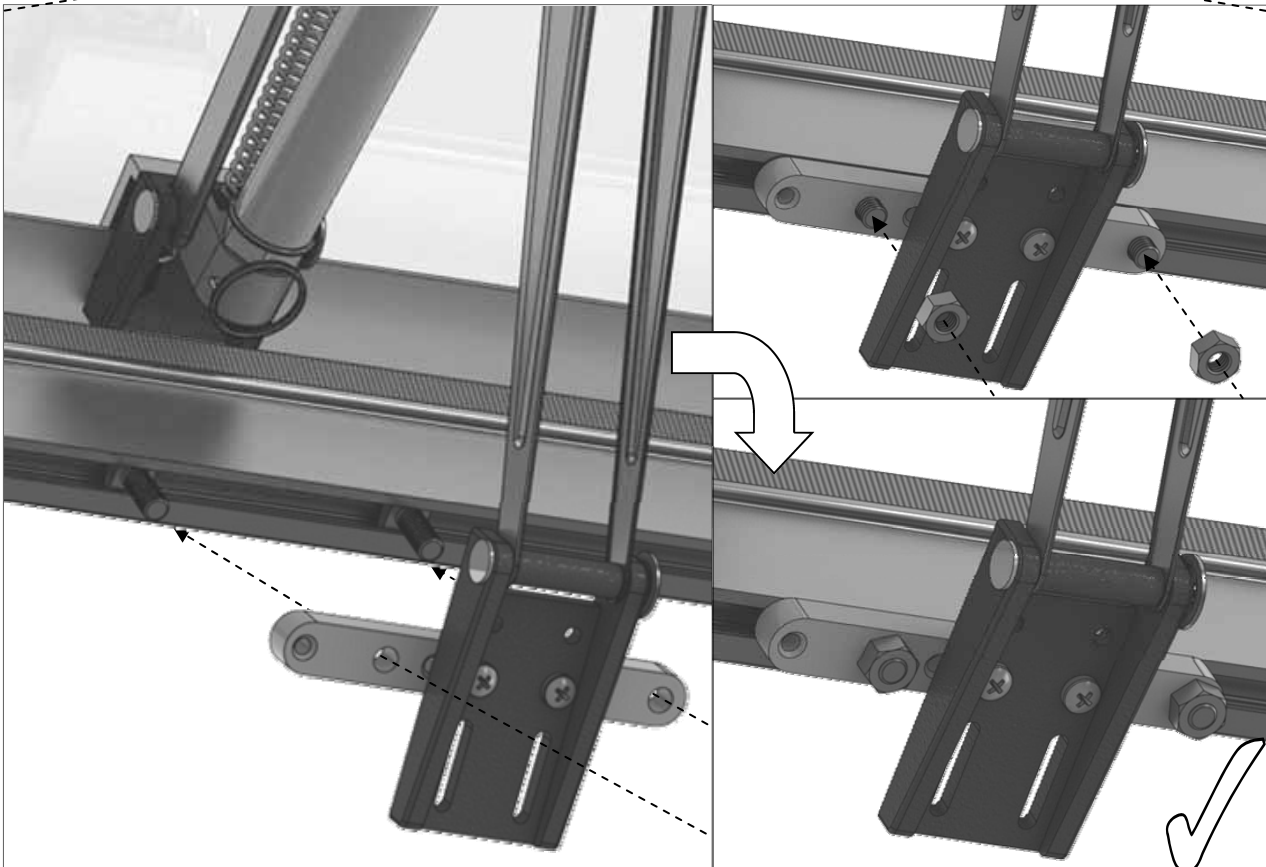
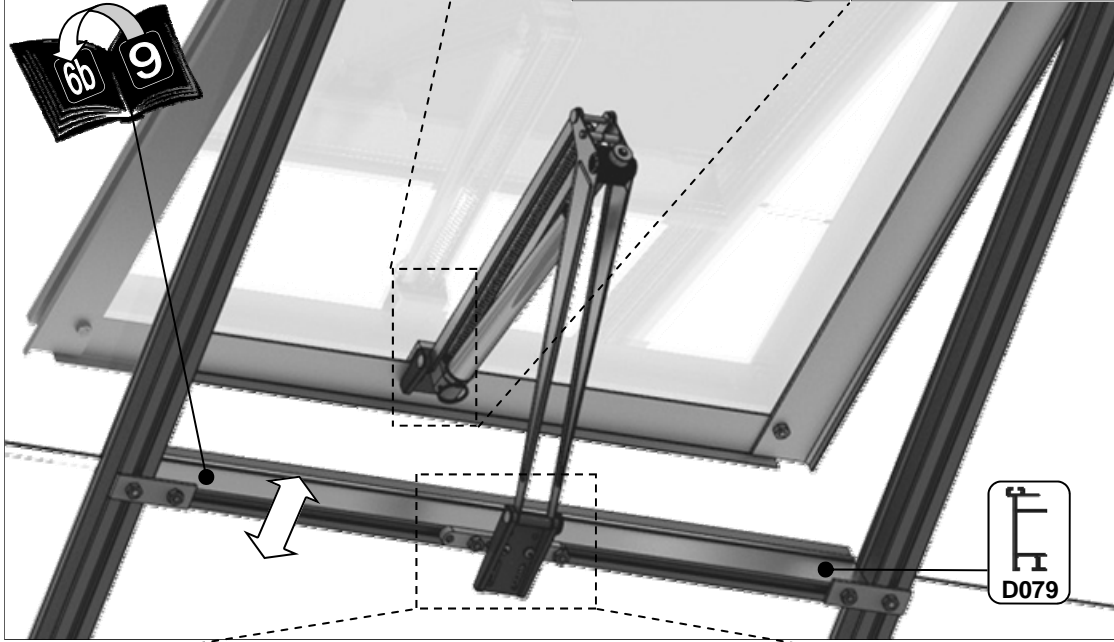
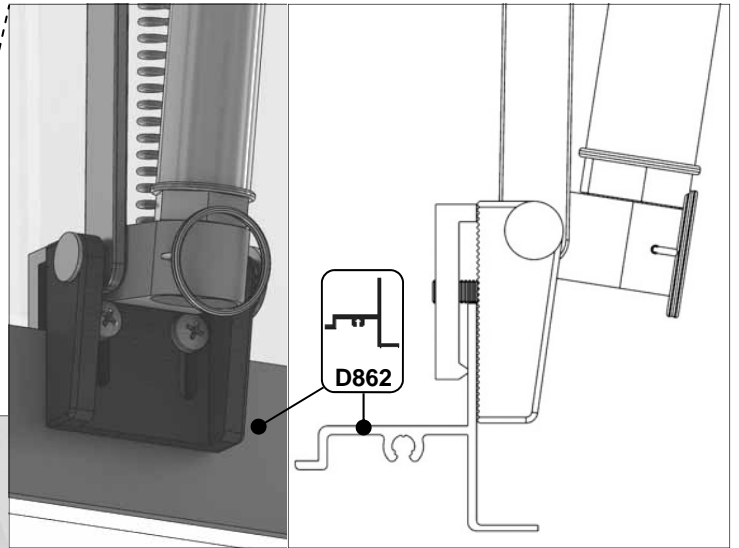
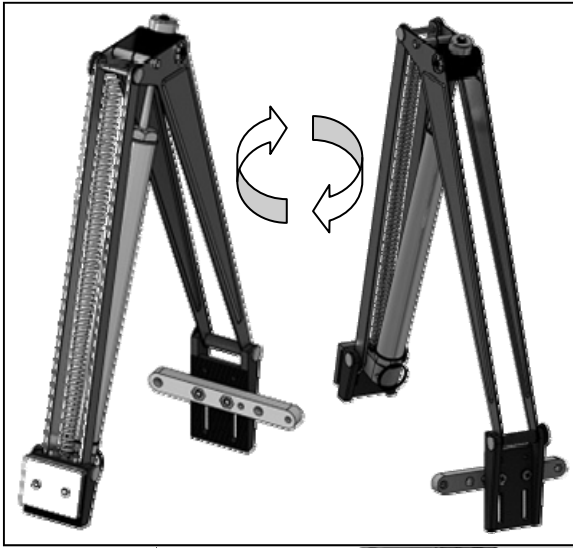












PART No	Section	Size (mm)
D792		2862
D816		1976
D820		2272
D870		601
D882		2568
D883		662
D887		1490
D1019		965
D781		
D814	1883	
D871	601	
D888	1490	
D793		2862
D828		1978
D830		2274
D836		1883
D880		2092
D884		2570
D885		664
D1020		965

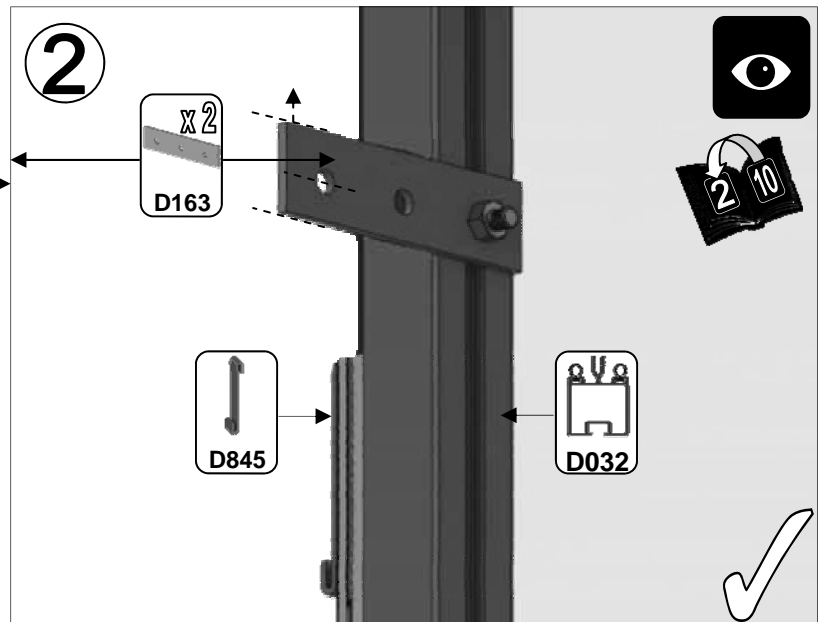
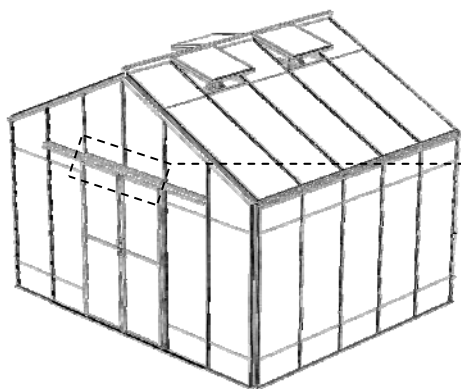
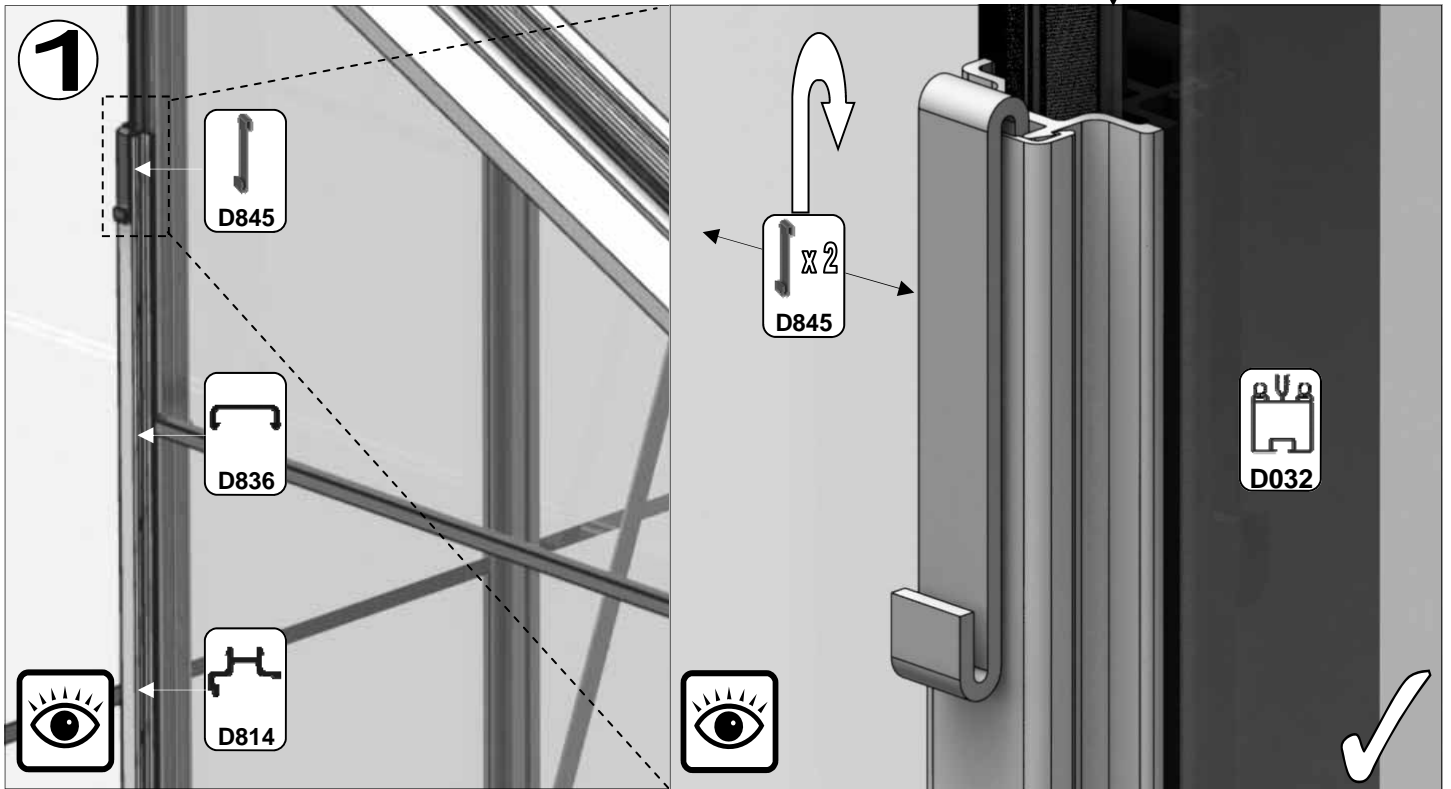
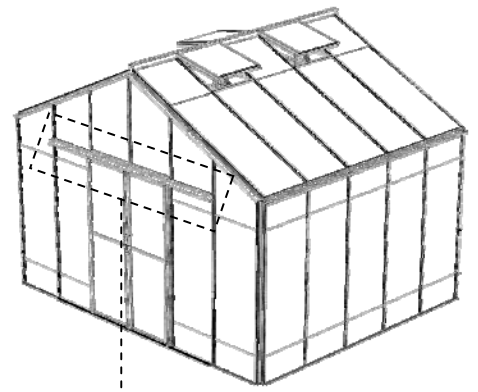




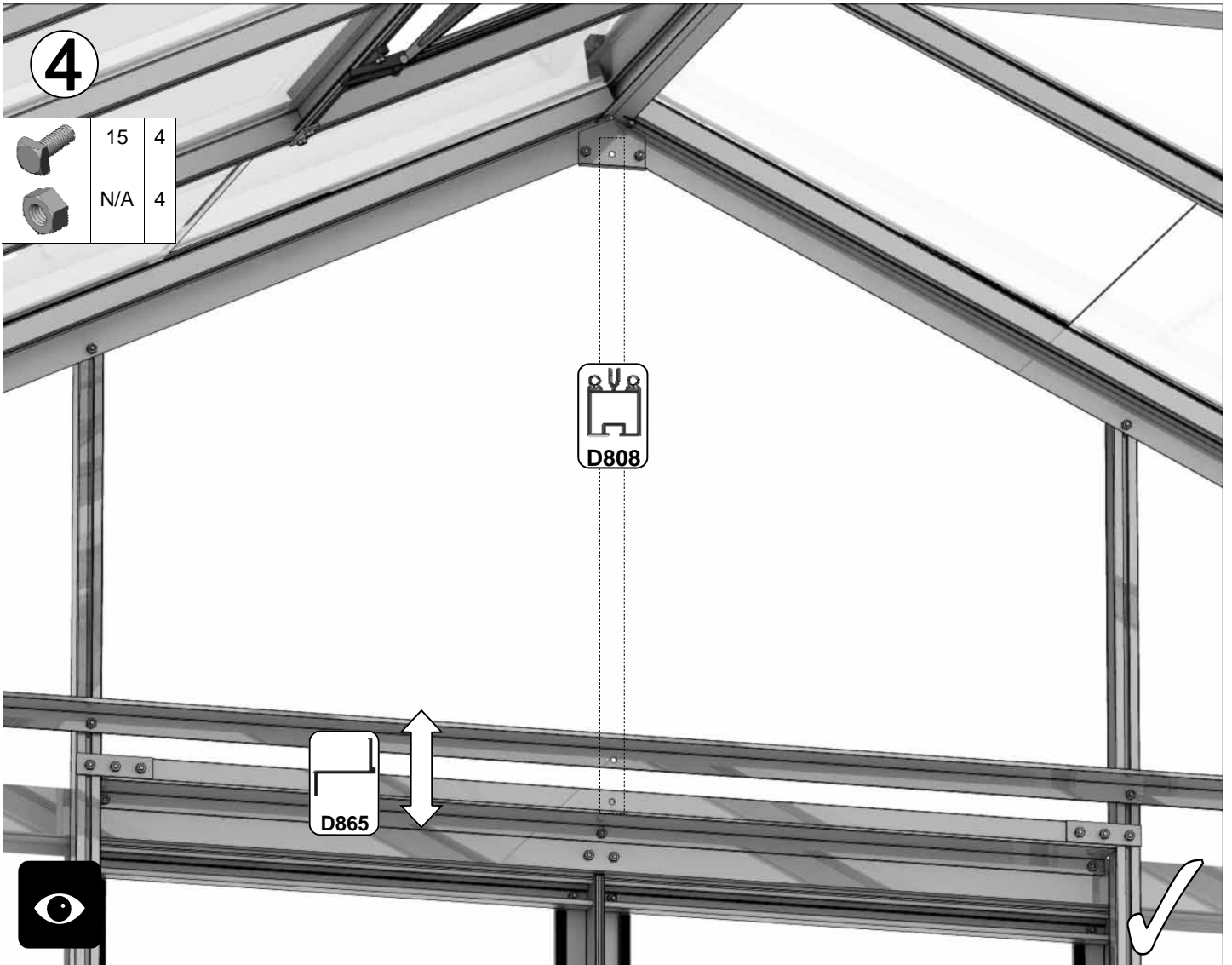
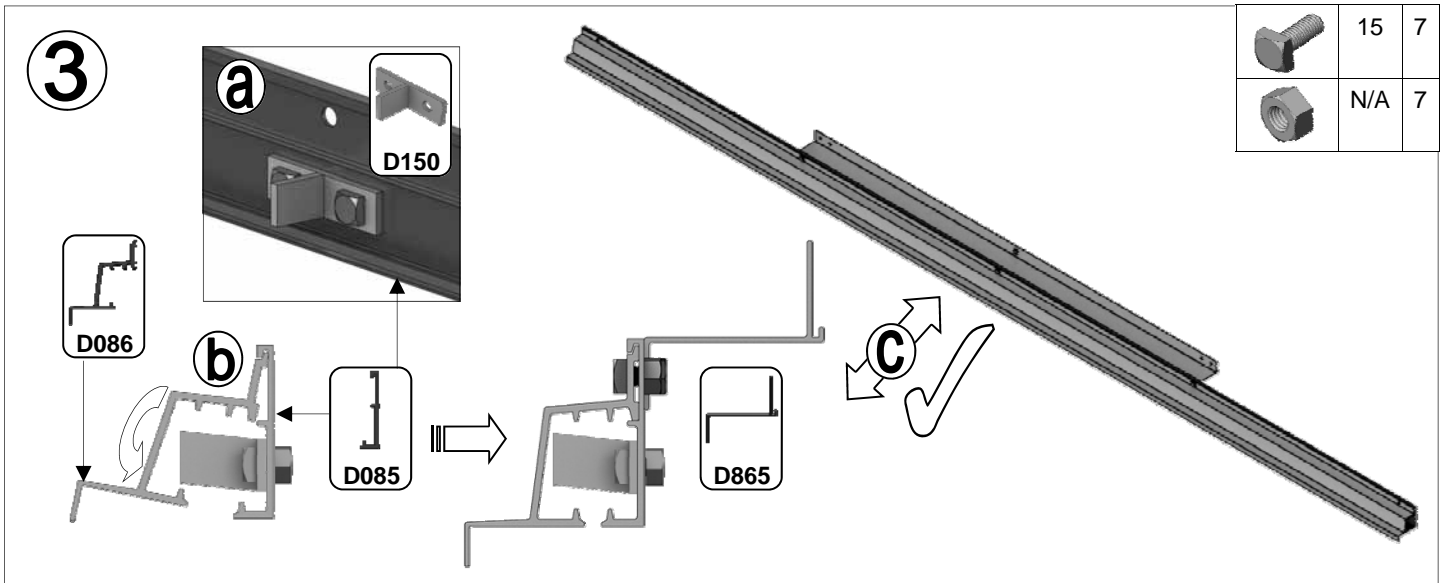


Part No		mm	Q
D865		1210	1
D086		2510	1
D085		2510	1



Part No		mm	Q
D163		90	2
D150			1
D845			2
SY-BOLM6X15			11
SYNUTM6			11

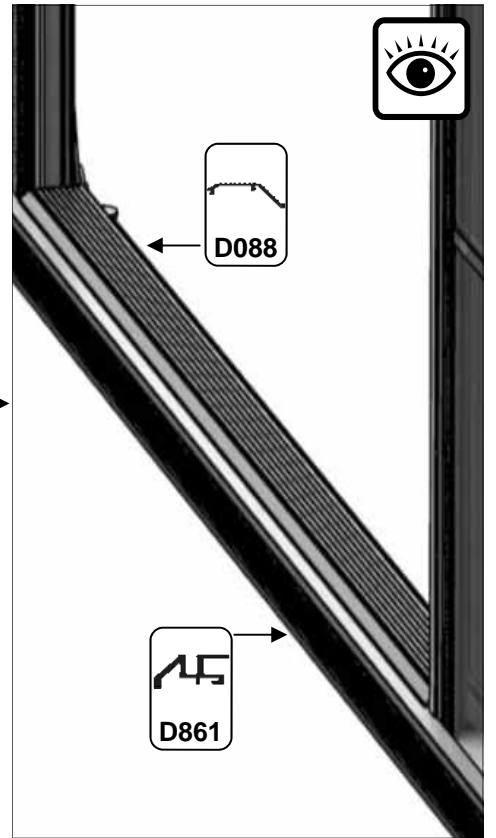
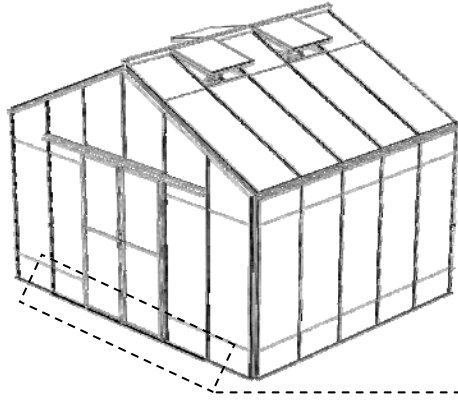


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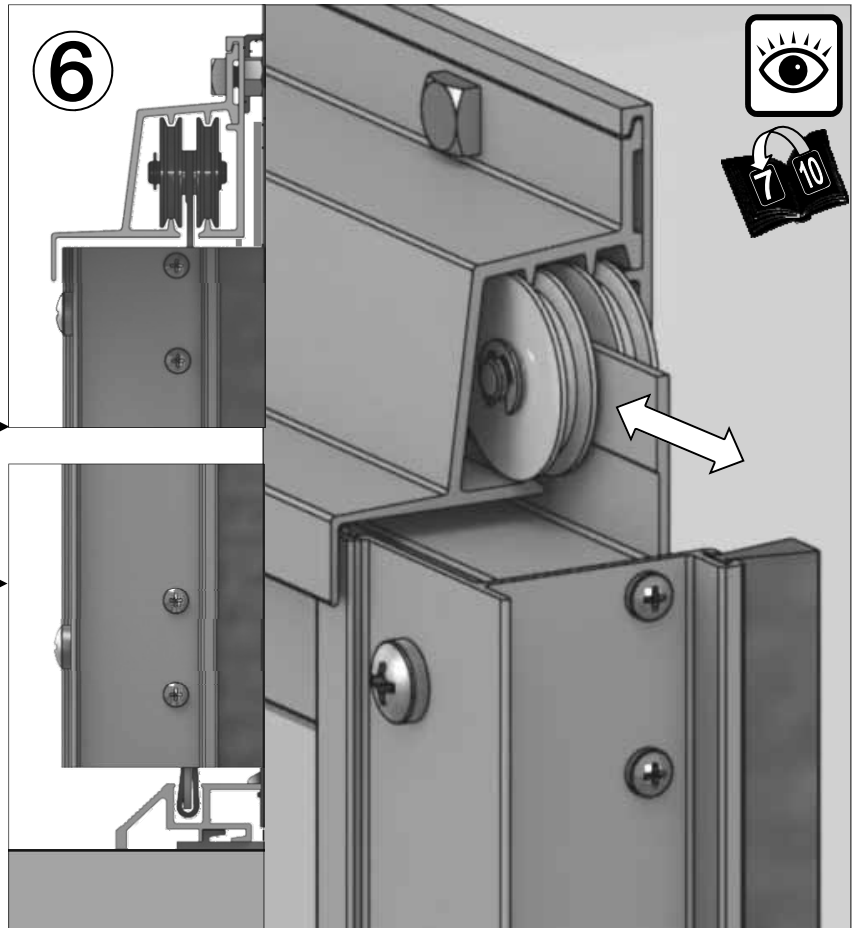
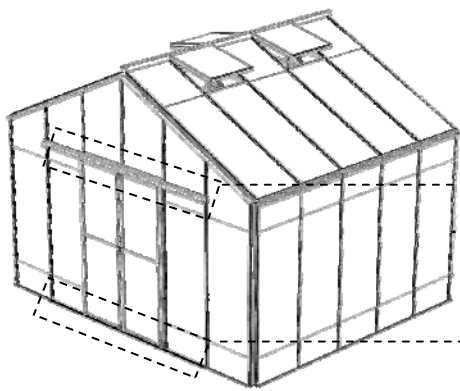
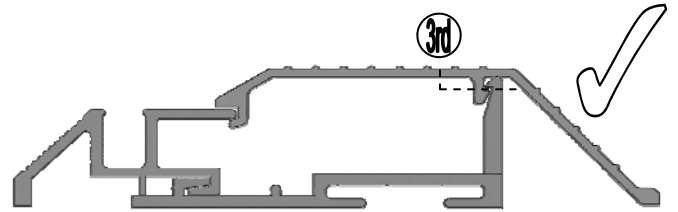
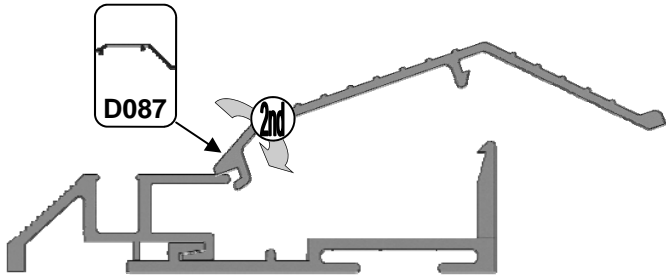
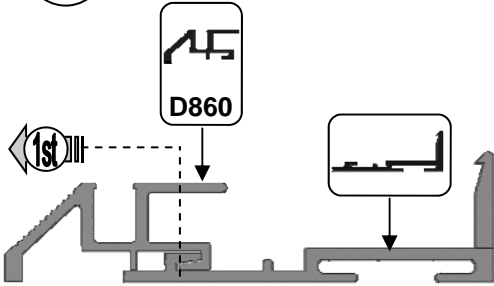


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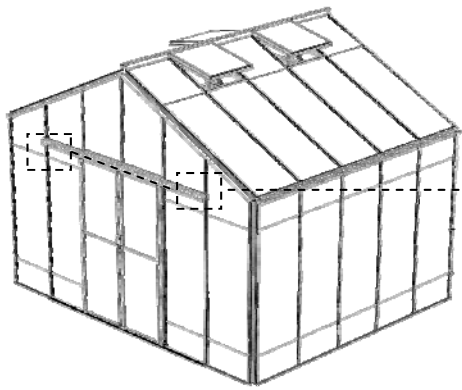
Part No		Q
D861		1
D088		1



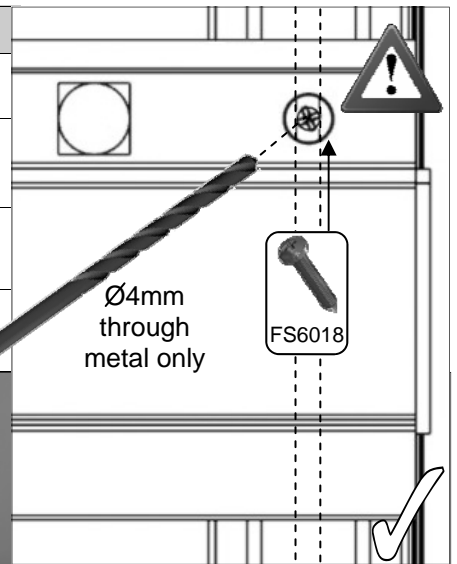
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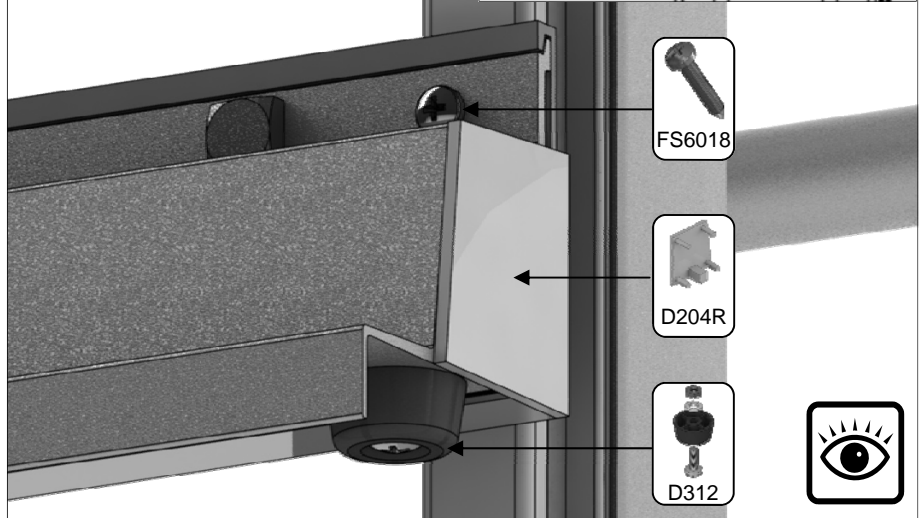
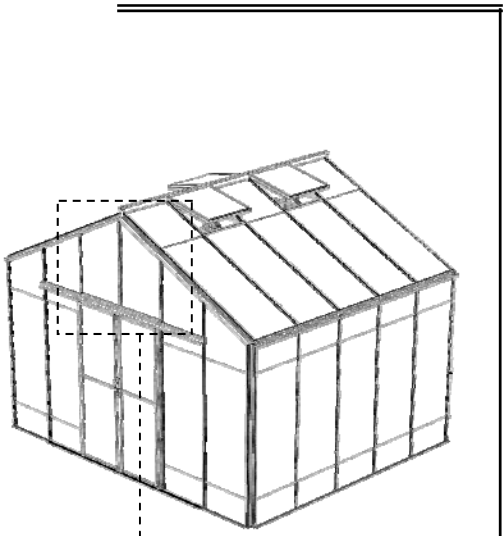
10



Part No		Quantity
FS6018		2
D312		2
D204L /B		1
D204R /B		1

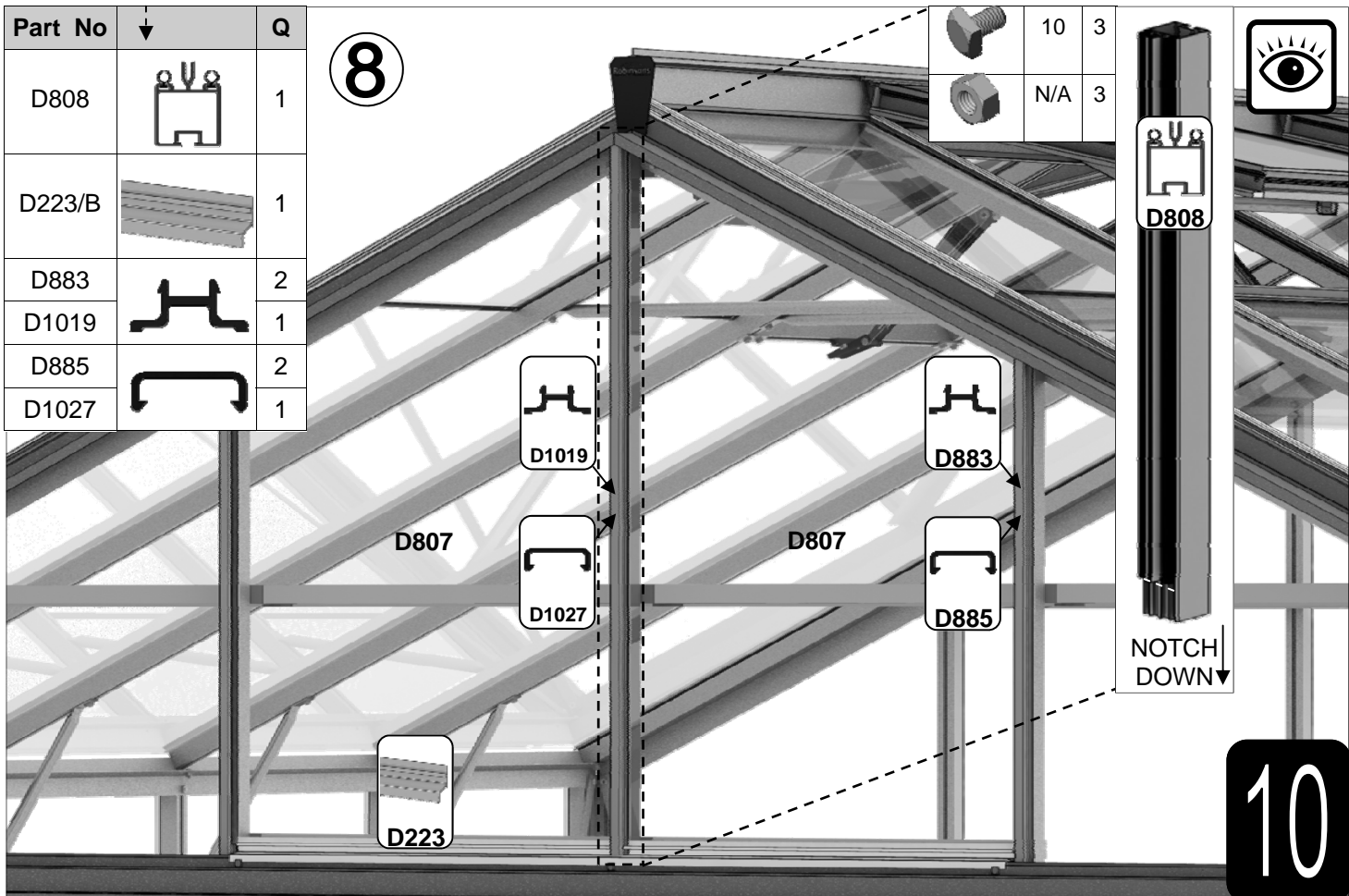


7

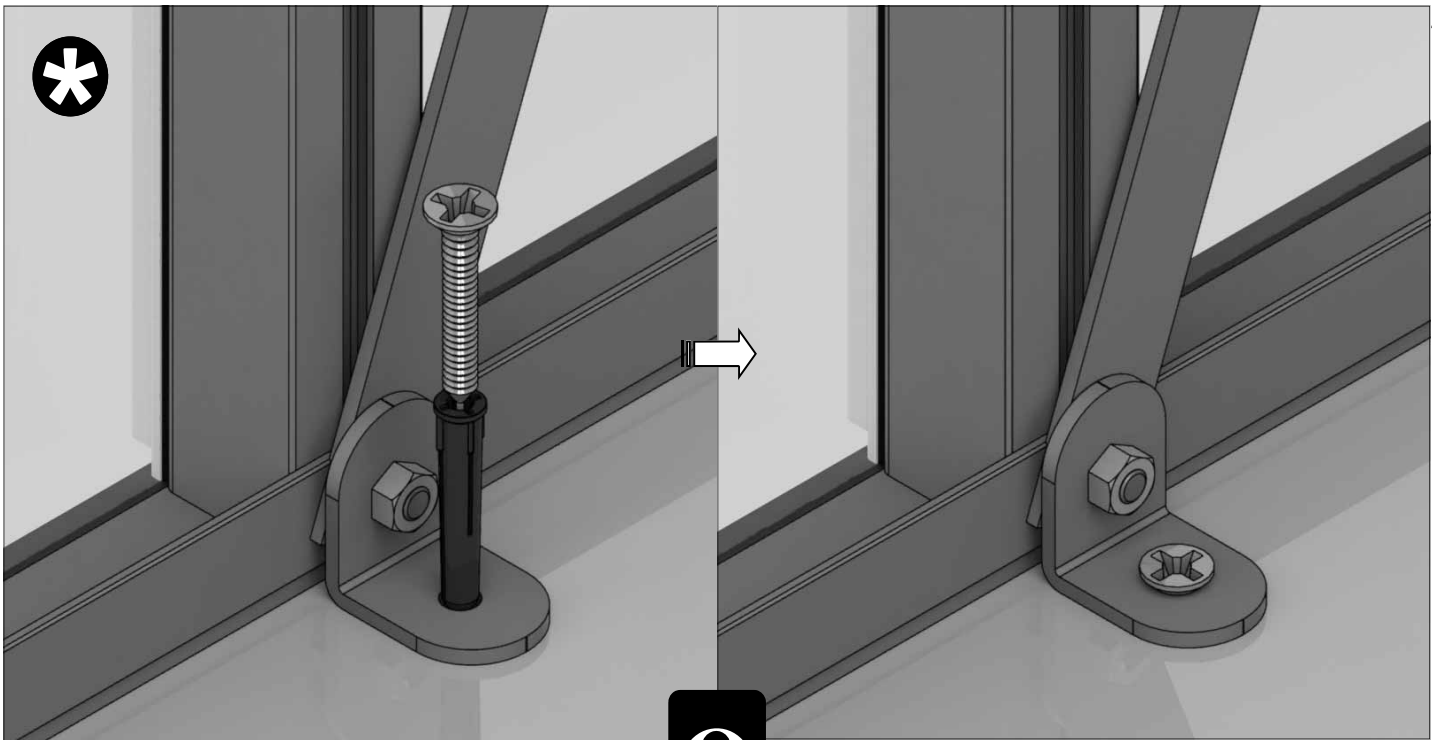
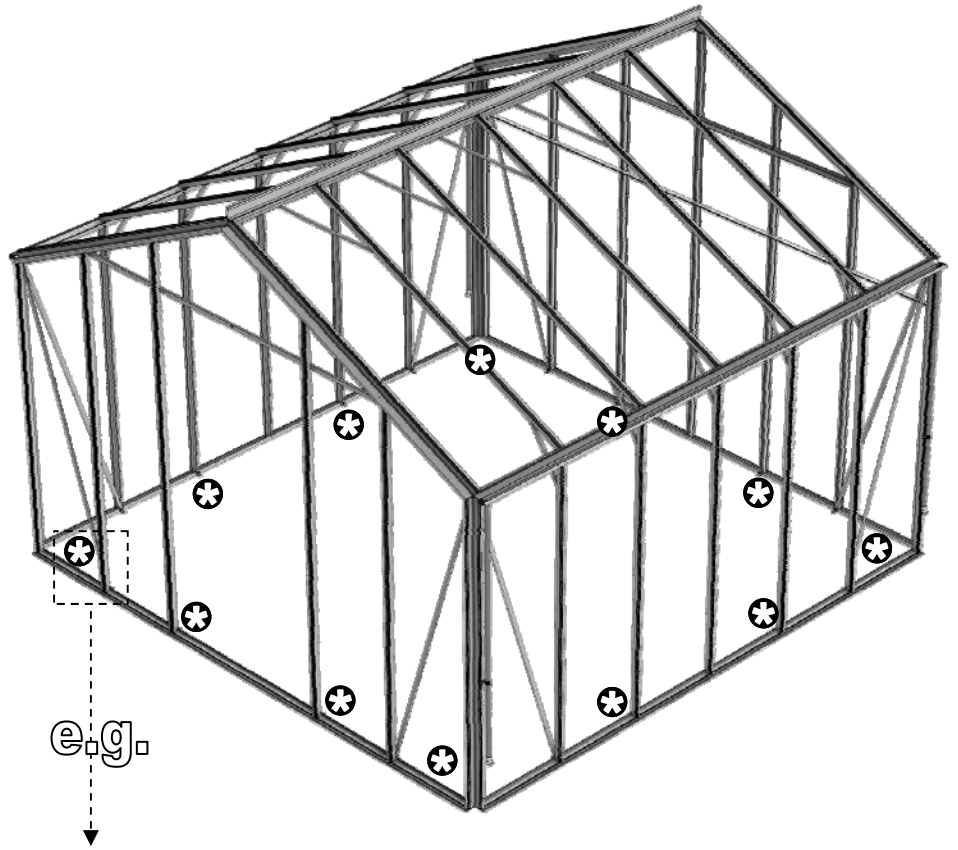
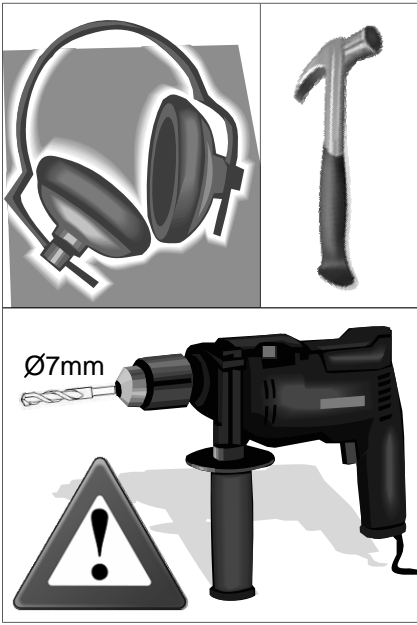


Part No		Q
D808		1
D223/B		1
D883		2
D1019		1
D885		2
D1027		1

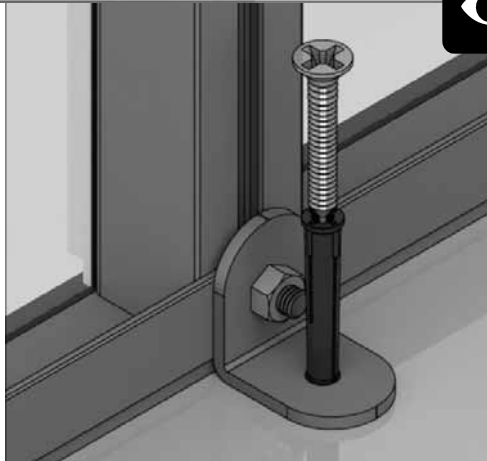
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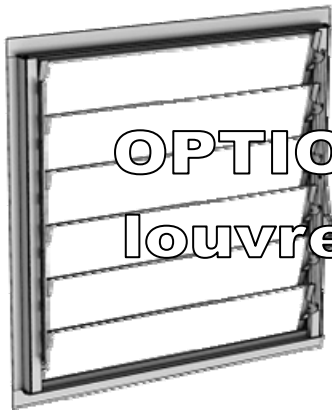


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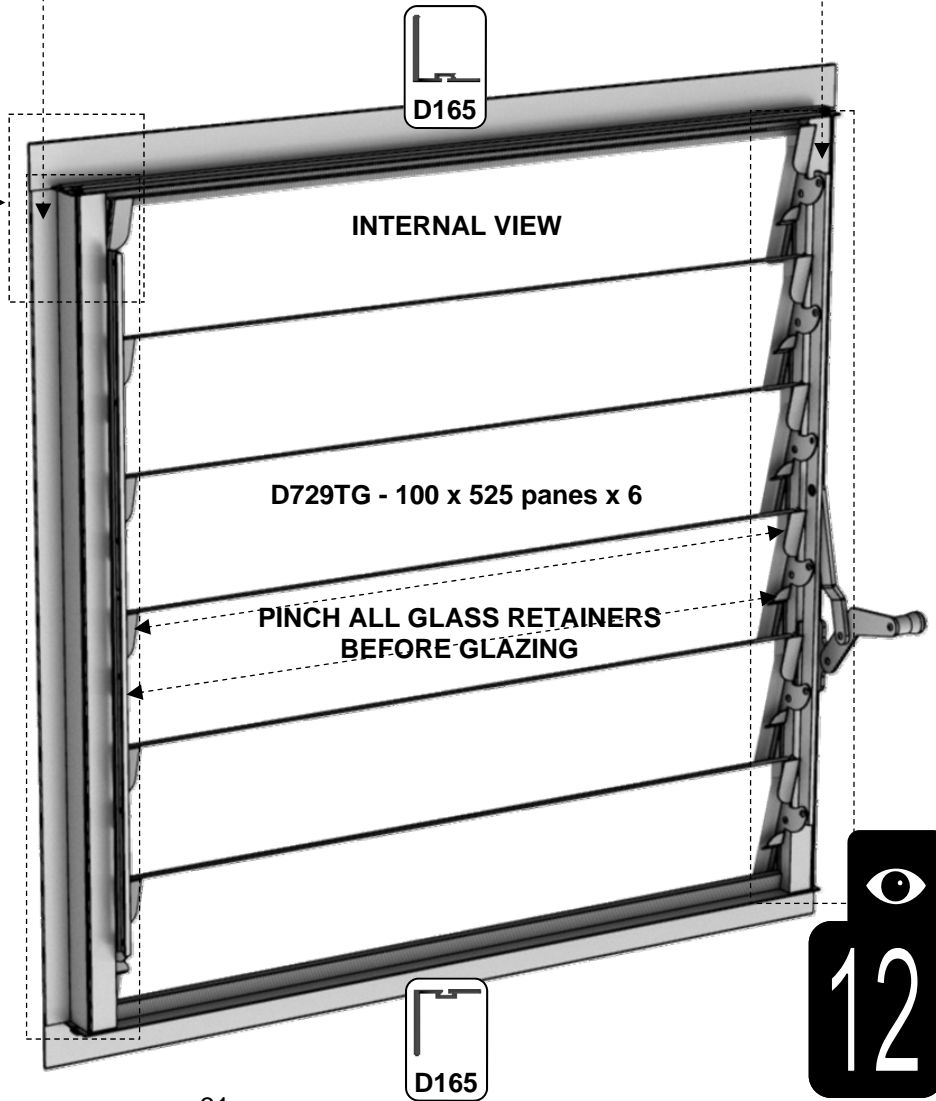
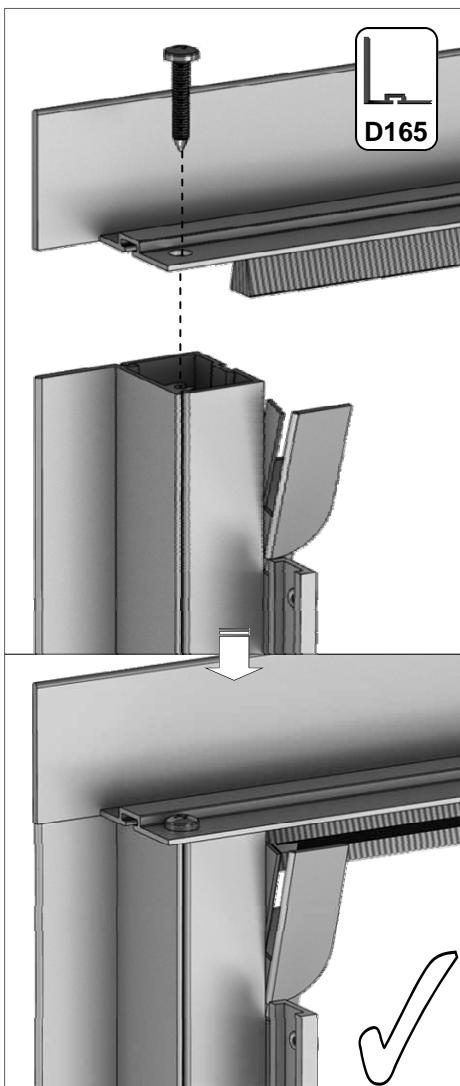
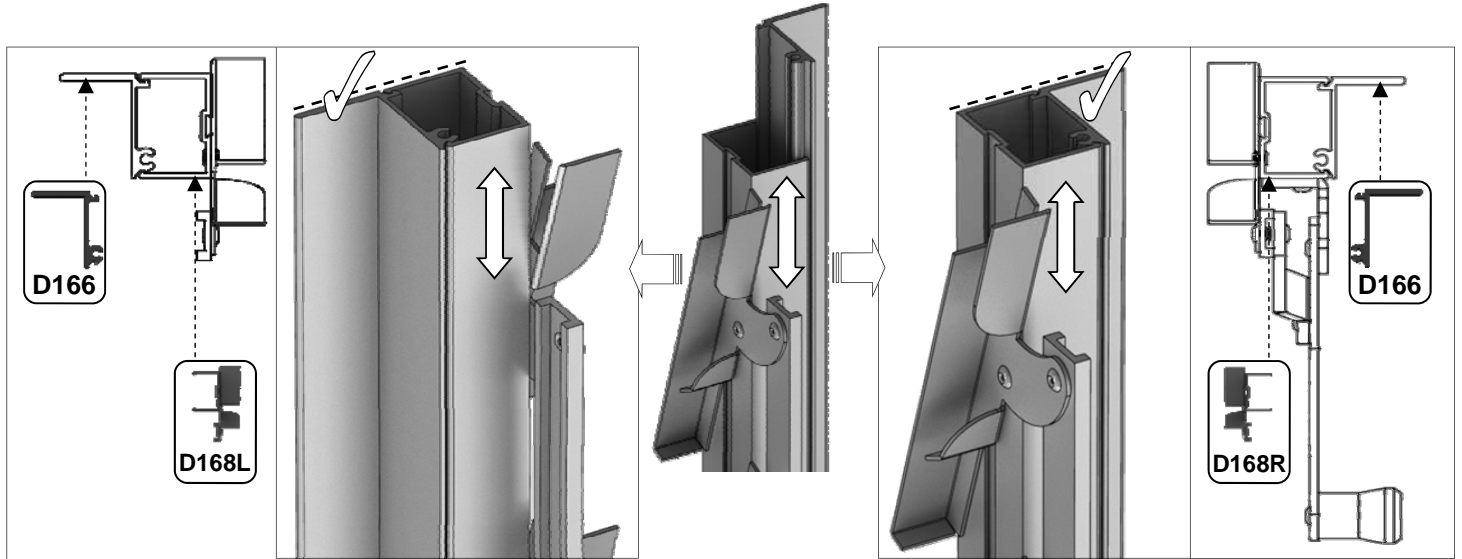
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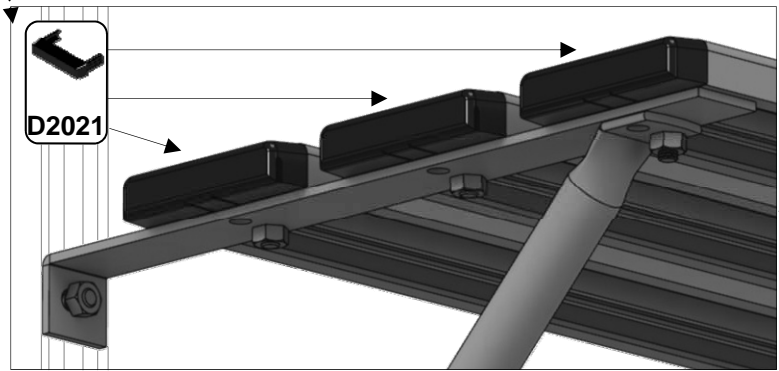
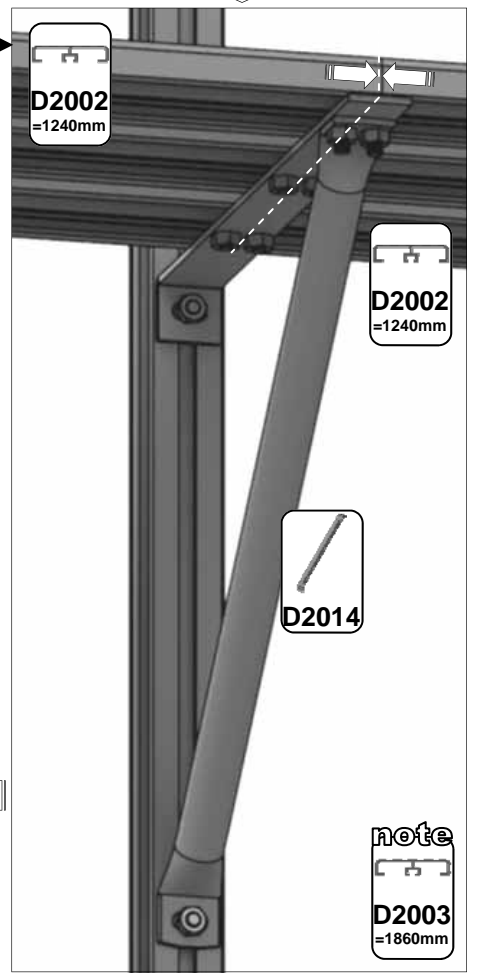
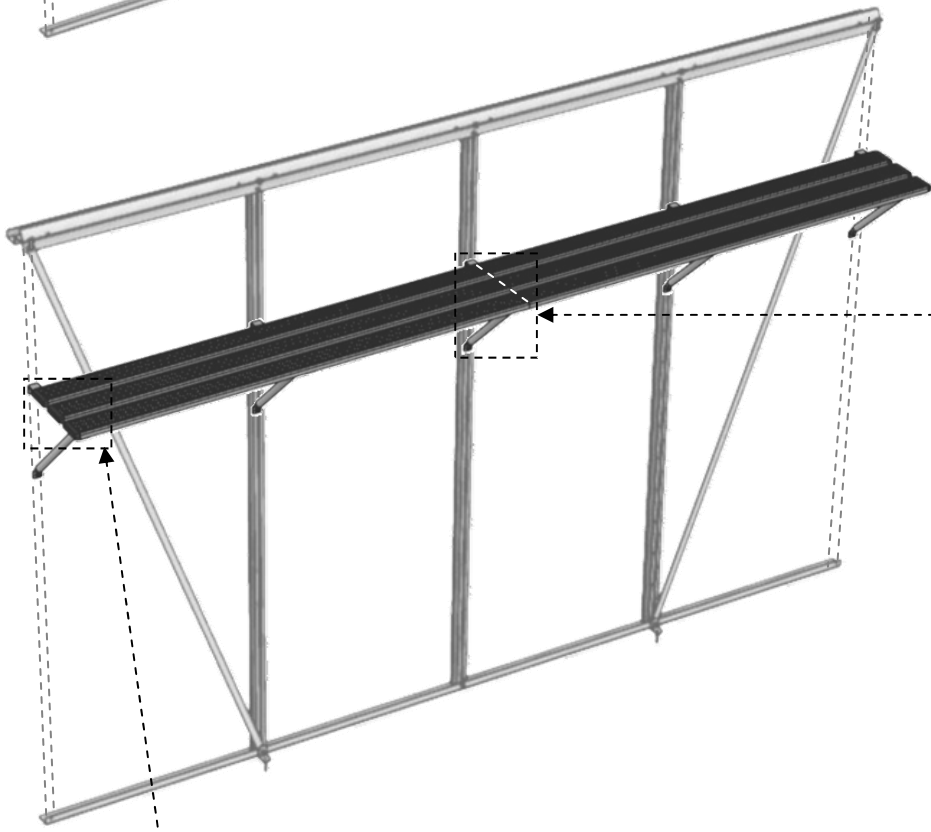
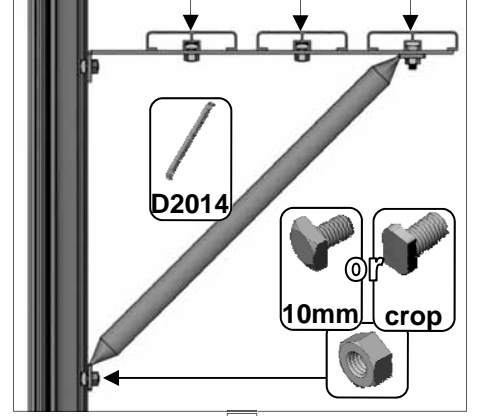
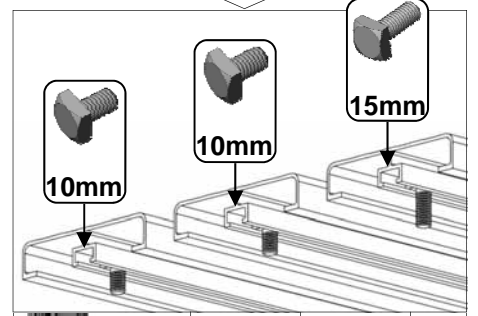
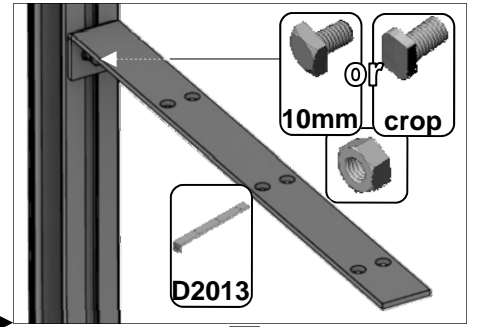
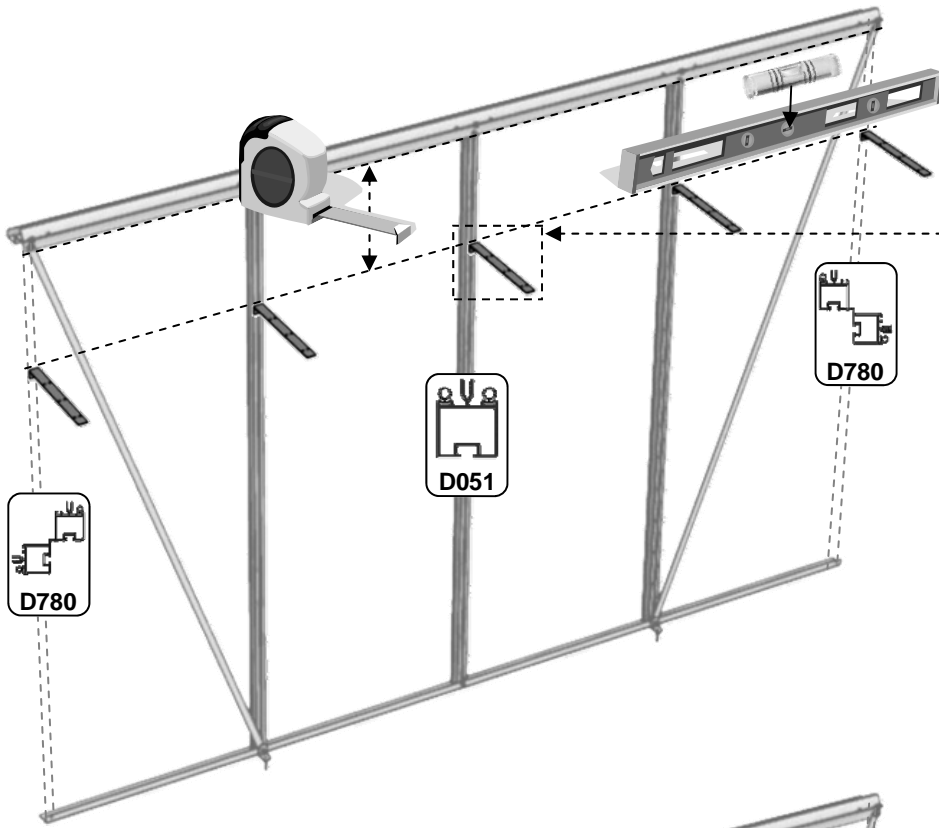


OPTIONAL
louvre = {

Part No		mm	Quantity
D168L		552	1
D168R (handle)		552	1
D165		612	2
D166		552	2
FS6013		12	4

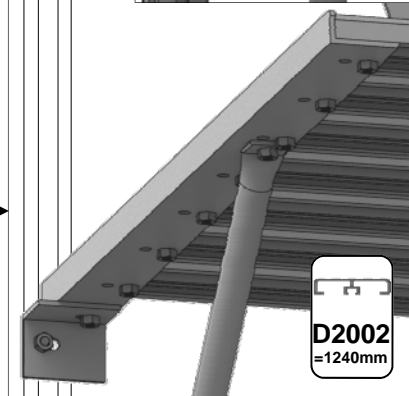
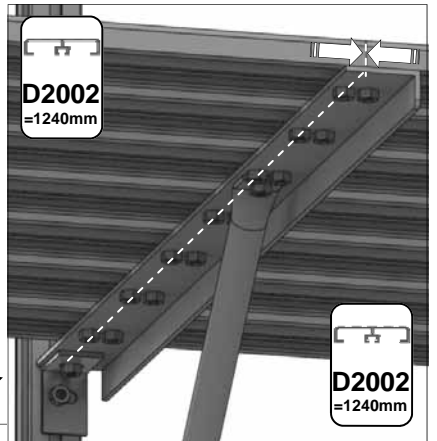
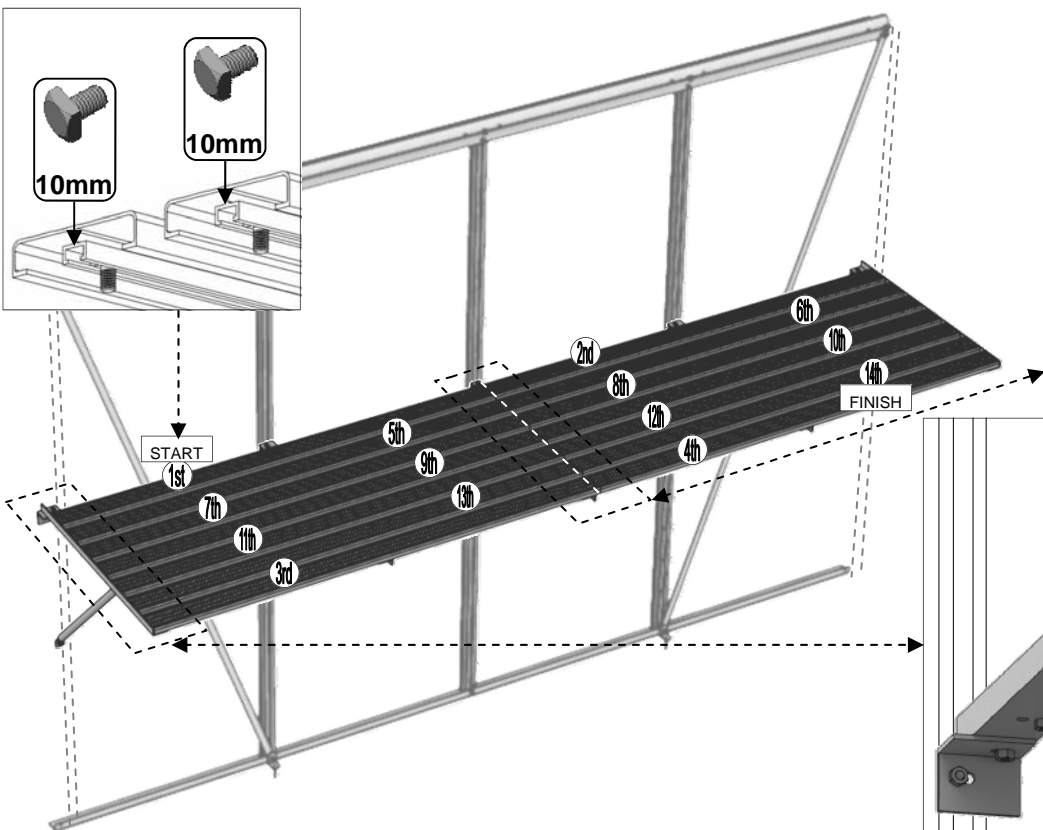
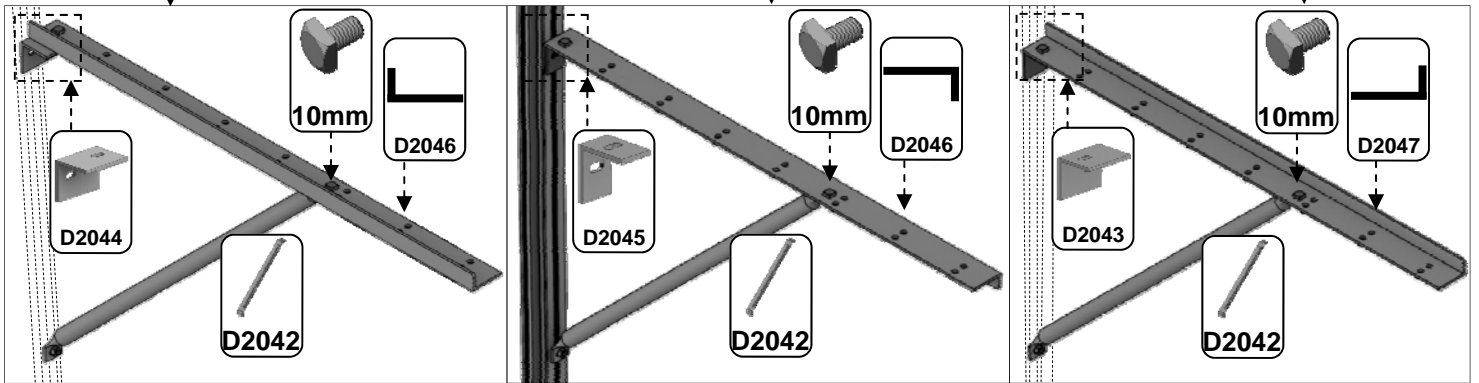
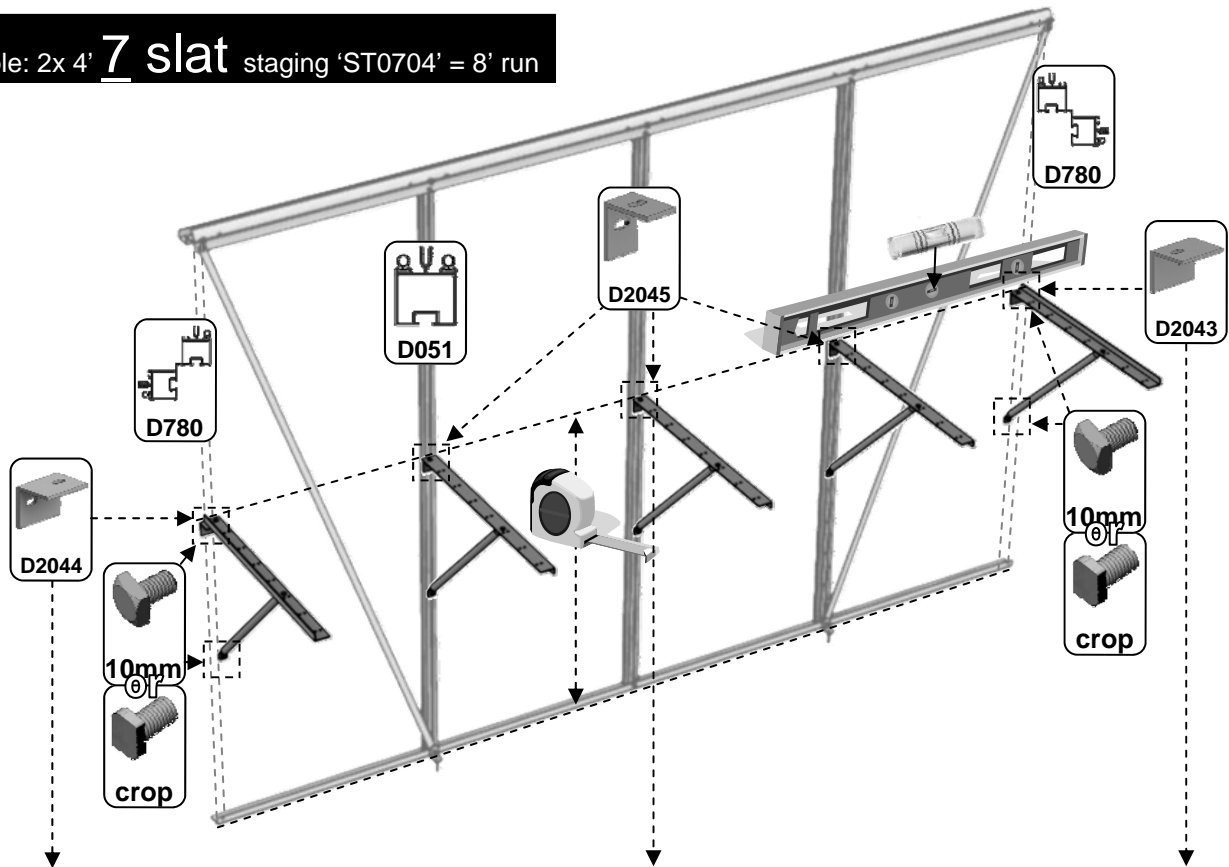


Example: 2x 4' 3 slat shelves 'ST0304' = 8' run



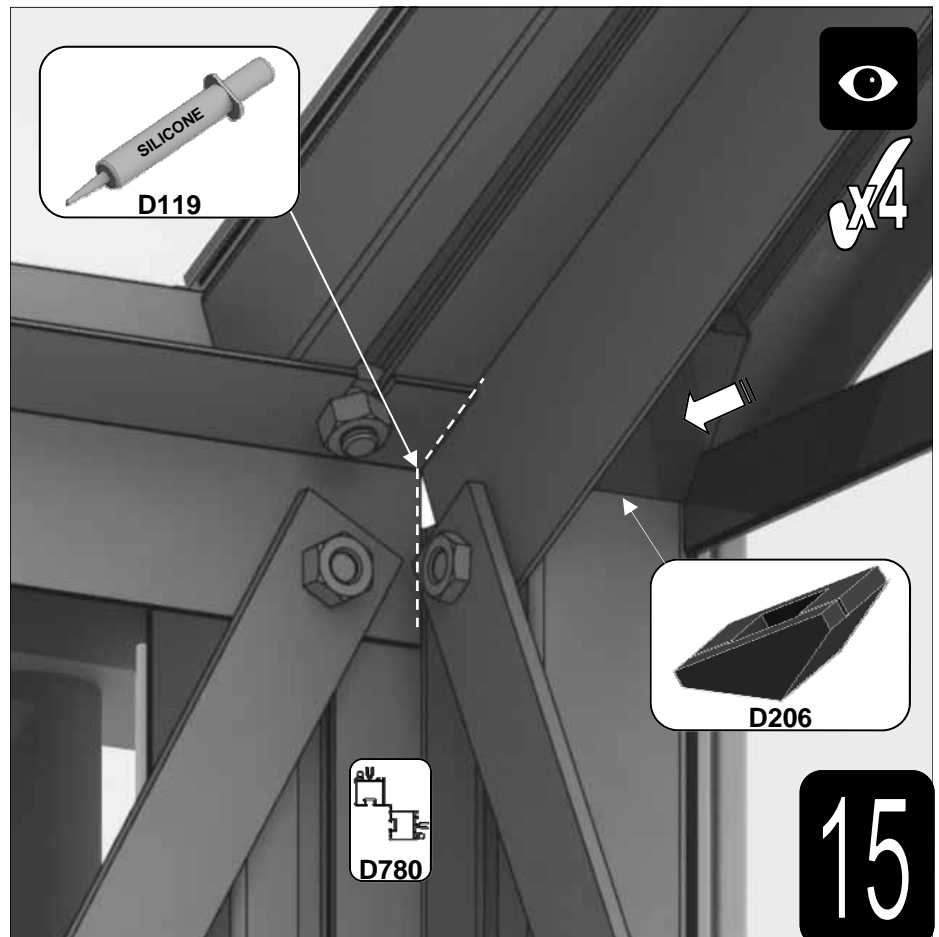
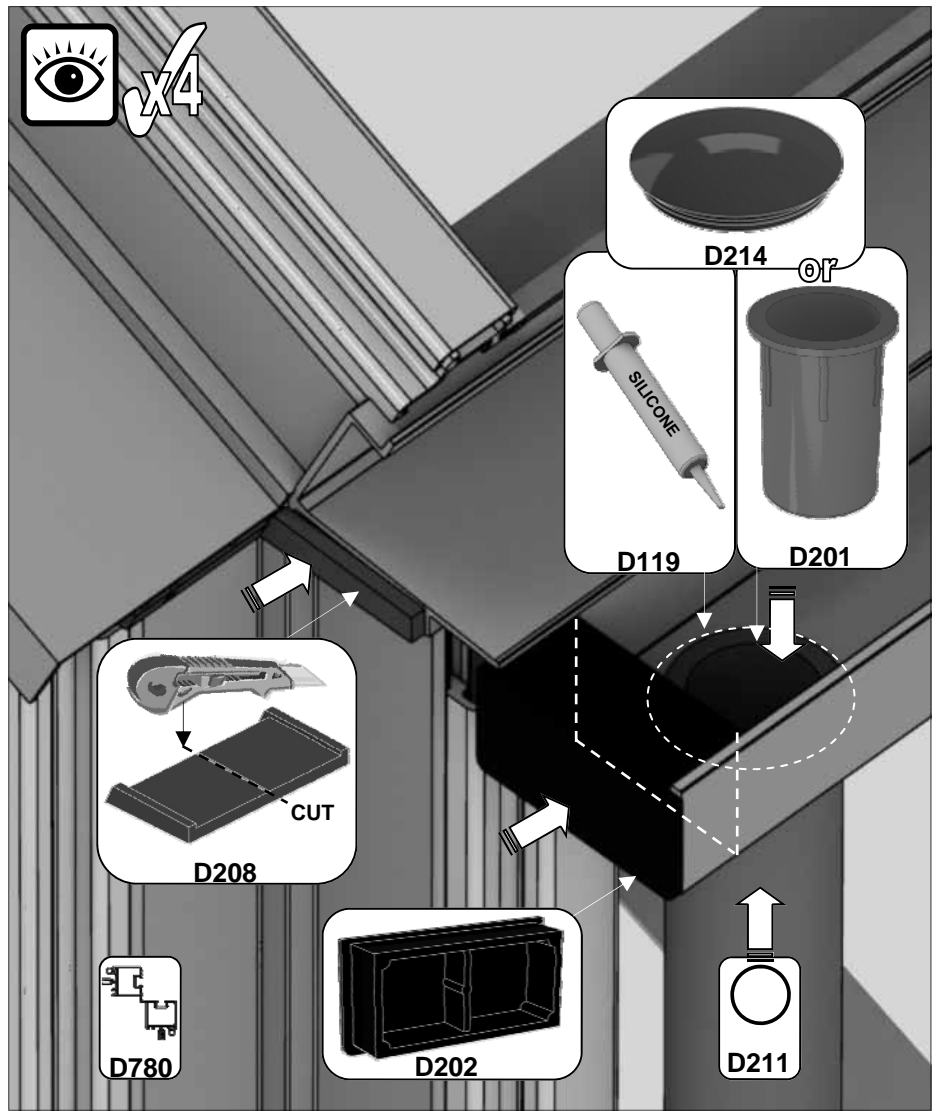
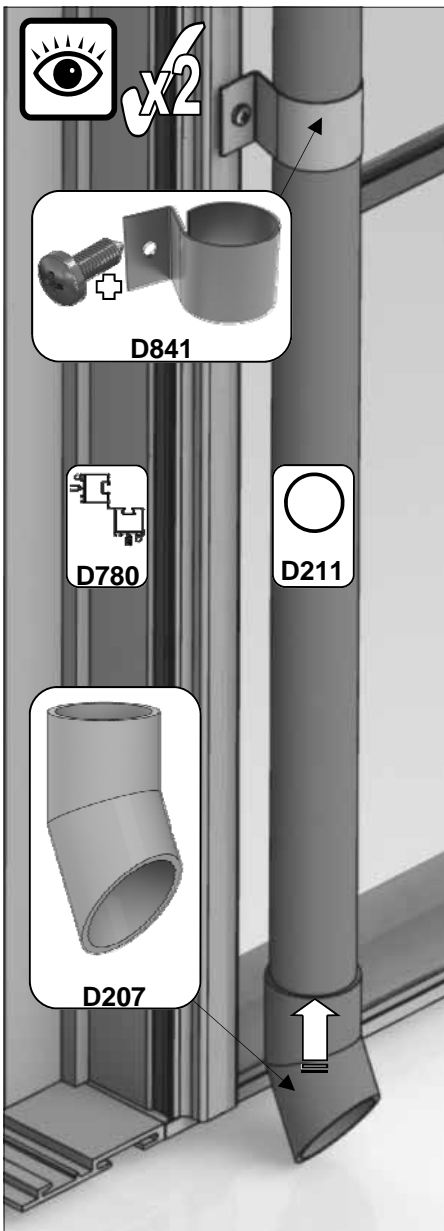
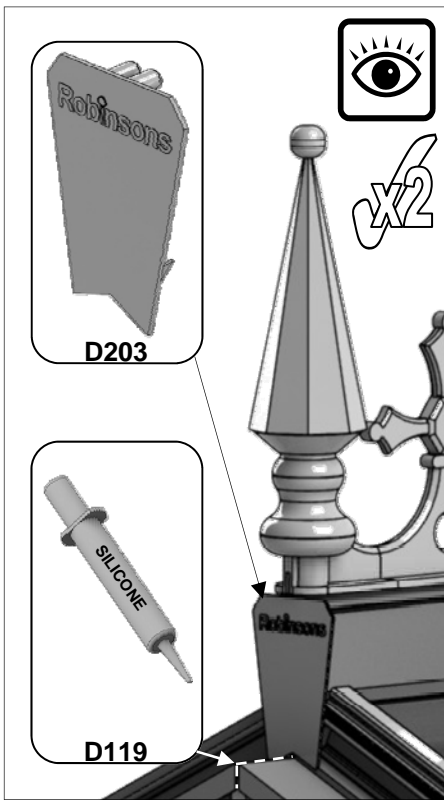
13

Example: 2x 4' 7 slat staging 'ST0704' = 8' run



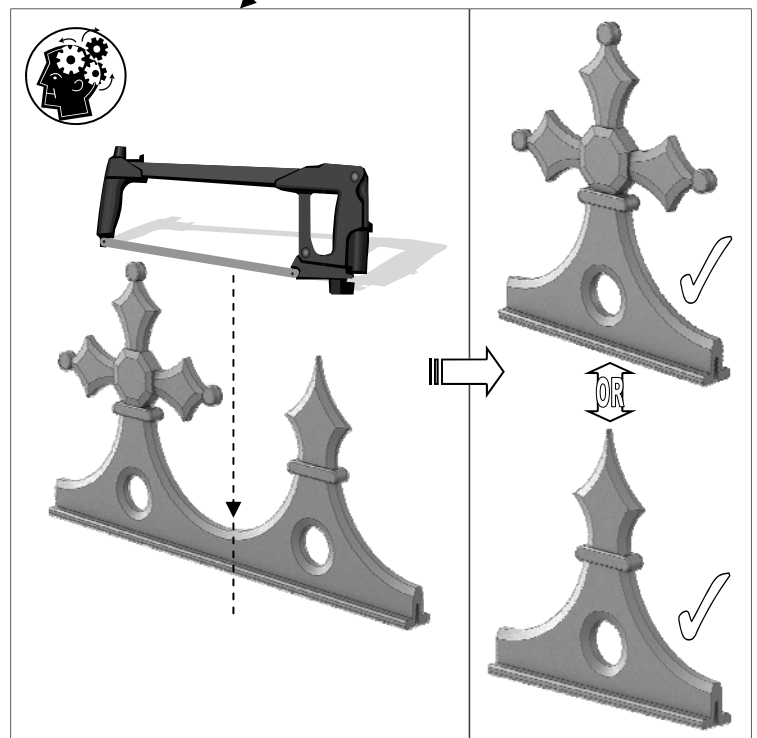
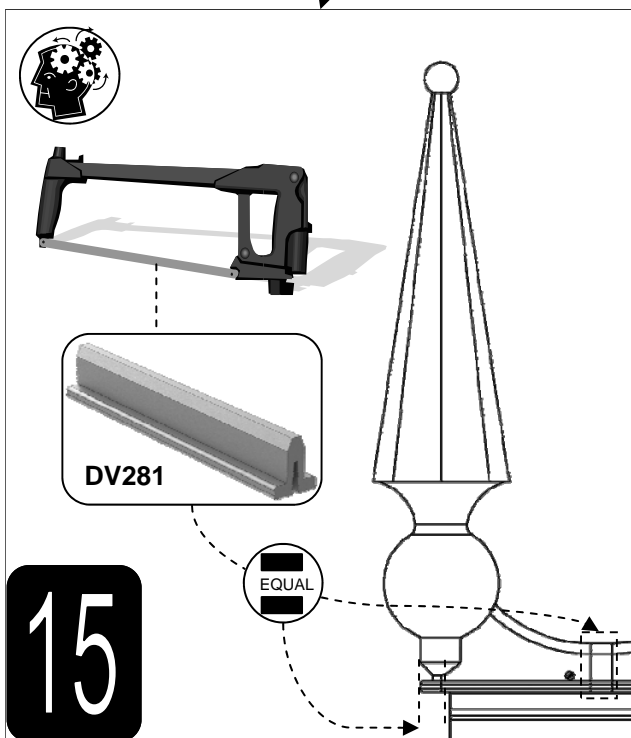
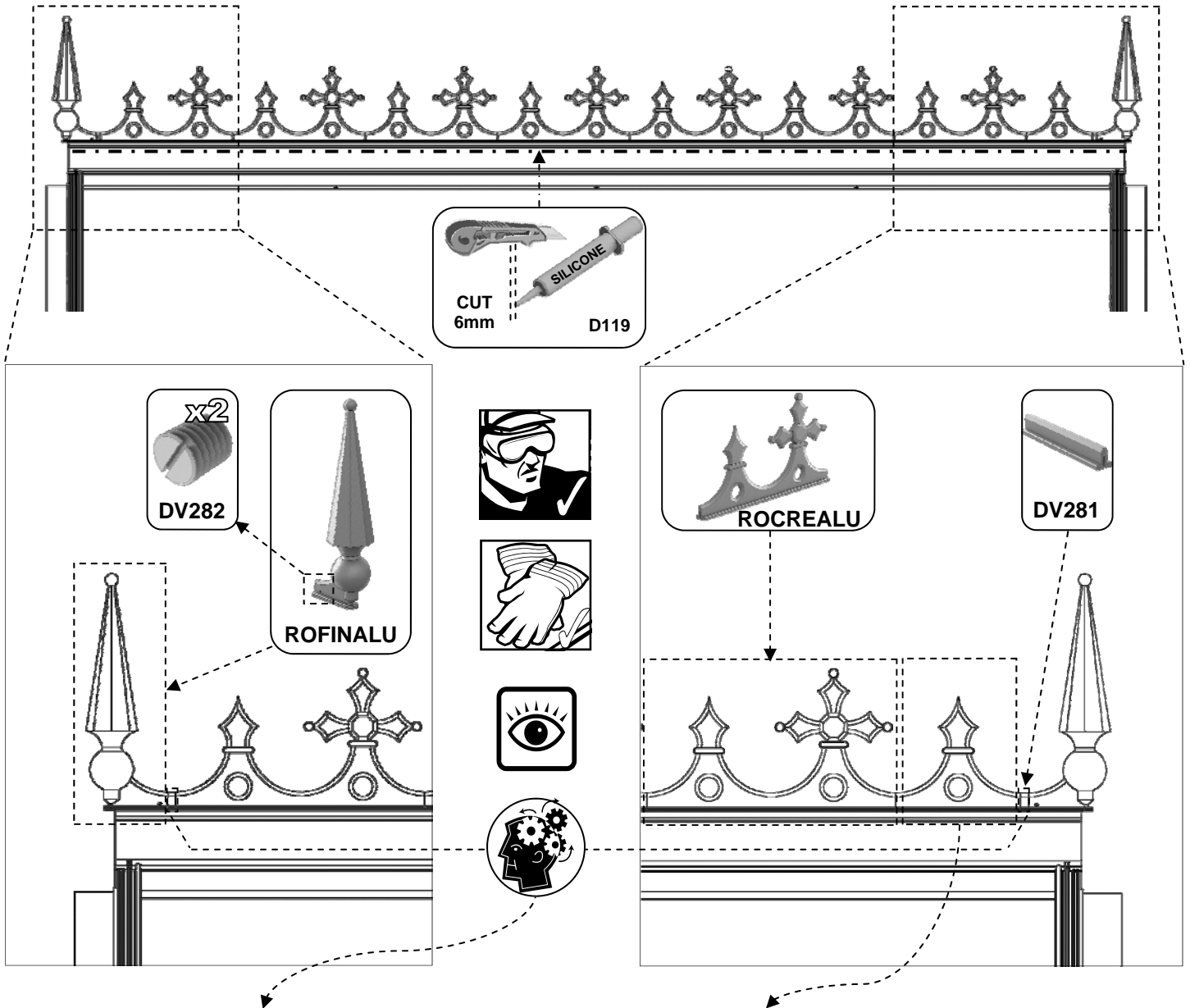
note
D2003
 =1860mm

14



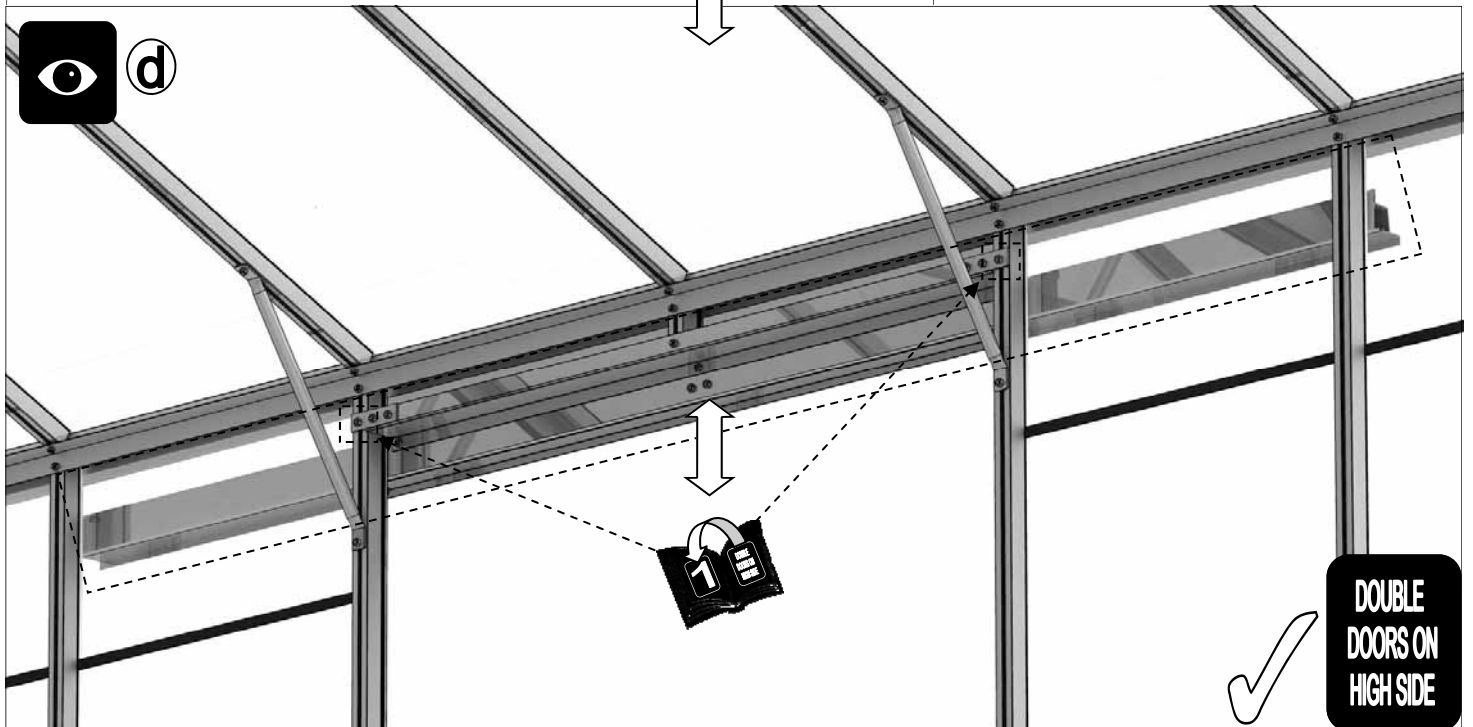
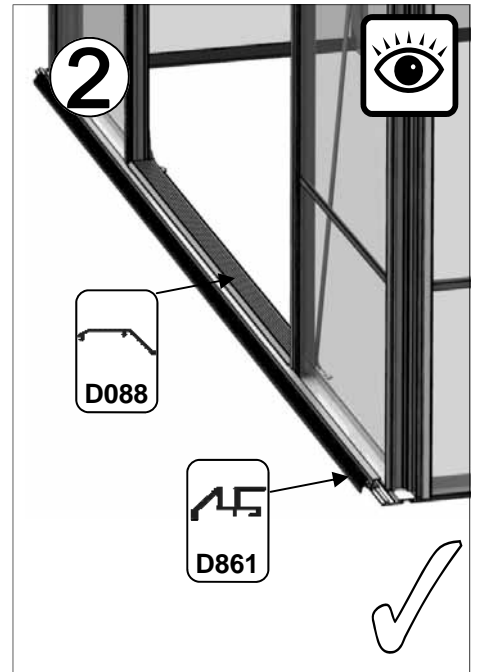
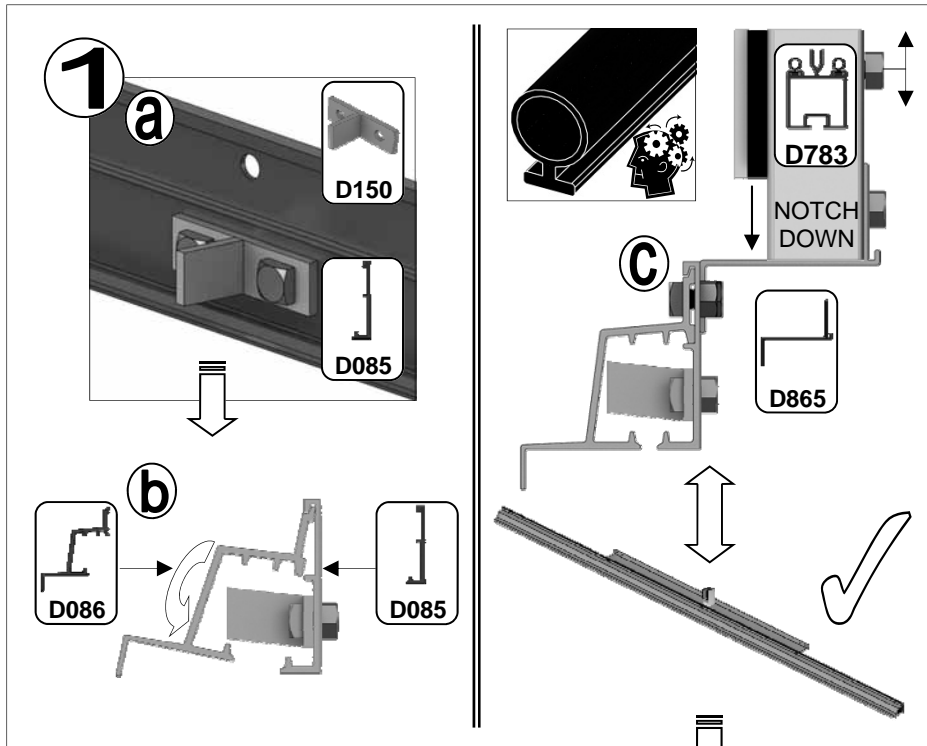
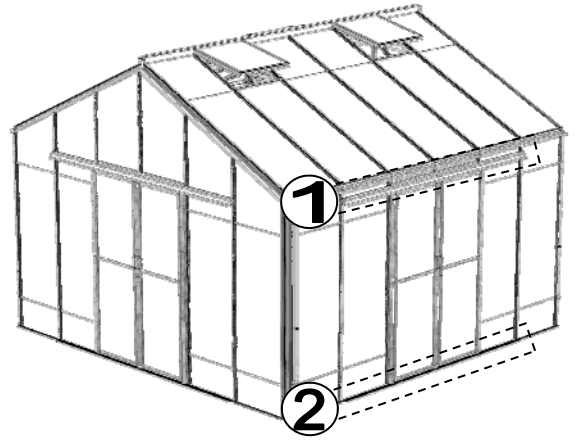
OPTIONAL crestring = {

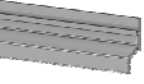

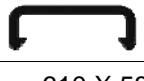
- End finials need to be pinched onto ridge using 'DV282' grub screws.
- Depending on your ridge length a half crestring may need to be cut or/ and some spacer bar 'DV281' cut into two equal sections.
- Each finial and crestring piece needs to be siliconed 'D119' into place.





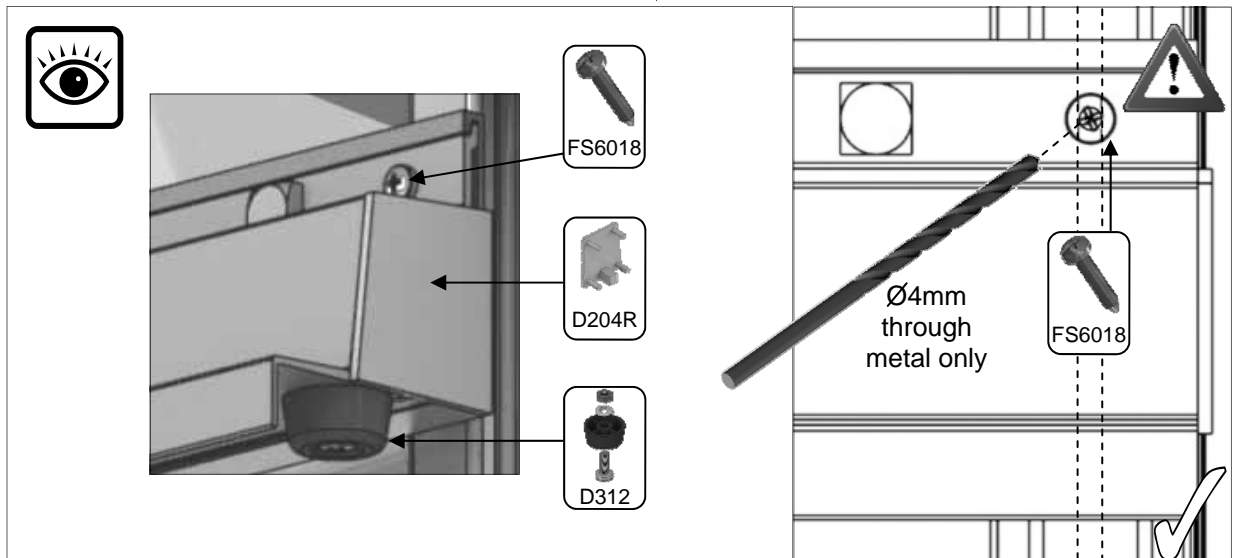
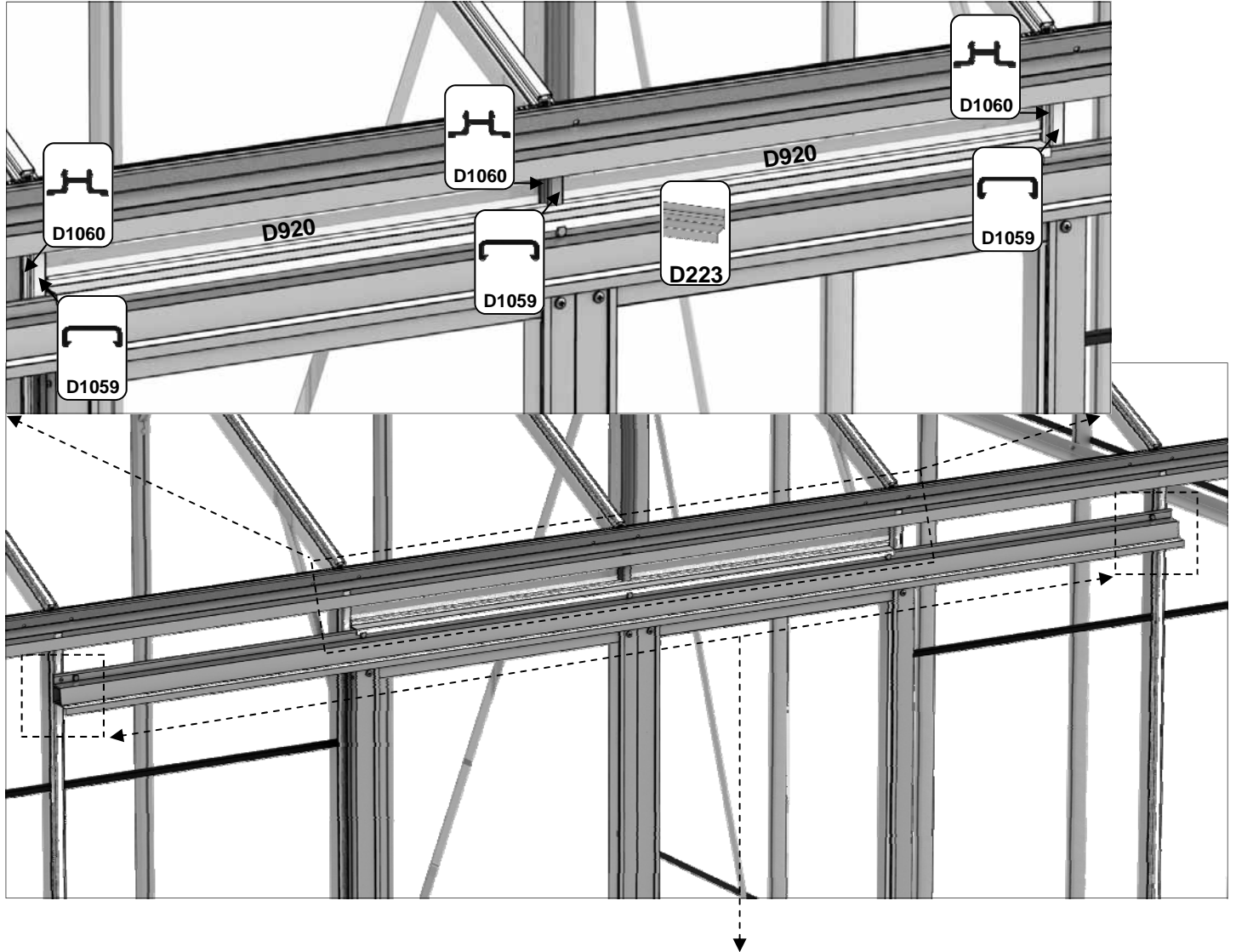
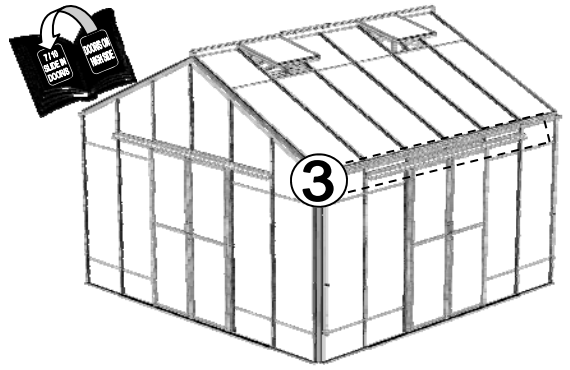
Part No		mm	Q
D865		1210	1
D086		2510	1
D085		2510	1
D861		2450	1
D088		1207	1

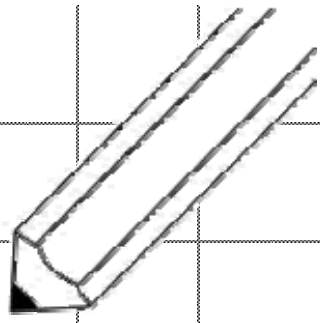
Part No		mm	Q
D783		70	1
D163		90	2
D150			1
D845			2
SYBOL M6X15			9
SYNUT M6			9



Part No		mm	Q
D223/B		1210	1
D1060		50	3
D1059		50	3
D920	610 X 58mm PANE OF GLASS		2

Part No		Quantity
FS6018		2
D312		2
D204L/B		1
D204R/B		1





Please be aware that this is a multi-national manual, if you spot any errors or have any constructive comments regarding the manual please email james.spooner@greenhousepeople.co.uk and I will make the necessary amendments. Whilst the information contained in this booklet is accurate at the time of publication, changes in the course of Robinsons policy of improvement through development and design might not be indicated. We point out this fact to avoid any infringements of the Trade Descriptions Act and also to advise that Robinsons Greenhouses reserve the right to change specifications and materials without prior notice.

In addition any photographs of completed buildings would be most appreciated to add to our portfolio.

Here's how you can earn £30 and have your new greenhouse feature in our next brochure....

We are always interested to hear how you went on assembling your greenhouse, and we are particularly interested to see photos of the finished article.

We like to see where you've put it, how you're using it and how it looks in your garden. Often we glean ideas from this which we can pass on to other gardeners as useful tips.

It is always nice if we can include 'real' greenhouse photos in the brochure, so if you send us a photo of your greenhouse to us and it is good enough to get into our next brochure, **we will send you a £30 reward.**

Please send your photos to:

Photo competition

Robinsons Greenhouses

Blythe Park

Cresswell

Stoke-on-Trent

Staffs

ST11 9RD

Or better still, email us on james.durose@greenhousepeople.co.uk

Please write on the reverse of photos your name and address and if you would like them back, please write 'please return' on them too.

We wish you all the best with your new greenhouse, and we look forward to seeing your photos in the near future!

THIS GREENHOUSE BOX WAS PACKED BY: _____

DATE: _____



www.robinsonsgreenhouses.co.uk

To contact Robinsons Customer Services email us at sales@robinsonsgreenhouses.co.uk or call us on 01782 385 409.

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